

Meeting Minutes: 2024 UPC ad hoc Rulemaking Committee of the Plumbing Board

Date: March 5, 2025
Time: 9:00 a.m.
Minutes by: Lyndy Logan
Location: DLI, 443 Lafayette Rd. No., St. Paul, MN 55155

Committee Members

1. Karl Abrahamson (Committee Secretary)
2. Richard Becker (Chair)
3. Justin Parizek
4. Mike Westemeier (DLI CO's Designee)

Committee Members Absent

None

DLI Staff & Visitors

Adam Case (Board Counsel, DLI)
Ken McGurran (backup Board Counsel, DLI)
Lyndy Logan (DLI)
Brad Jensen (DLI)
Tom Eisert (DLI) – WebEx
Hannah Mardaus (DLI) – WebEx
Steve Neubel (DLI)
Anita Anderson (Dept. of Health) – WebEx

DLI Staff & Visitors continued...

Lew Anderson (City of Mpls) – WebEx
Mike Arends (Ads Pipe) – WebEx
Jason Bethke (City of Blaine) – WebEx
Adam Breeggemann (City of Burnsville) – WebEx
Dan Engsborg (Distributor Sales) – WebEx
Jeff Hill (MWQA)
Jim Kendzel (JK Consulting) – WebEx
Stephanie Menning (MUCA) – WebEx
David Nickelson (Uponor) – WebEx
Bradley Peters (City of Rochester) – WebEx
Jim Peterson (MN PHCC) – WebEx
David Radziej (MN PHCC) – WebEx
Ryan SanCartier (MMCA) – WebEx
Brian Soderholm (Water Control Corp) – WebEx
Gary Thaden (MMCA/NECA)
Rick Wahlen (PLB Board member) – WebEx
Chad Whiting (U of M) – WebEx

1. Call to Order

- A. Committee Chair Becker called the meeting to order at 9:04 a.m. Committee Secretary Abrahamson took a roll call, and a quorum was declared with 4 of 4 Committee members present in person.
- B. Announcements/Introductions
 - Everyone present in person and remotely can hear all discussions.
 - All votes will be taken by roll call if any member is attending remotely.
 - All handouts and WebEx instructions are posted on the Committee's website.

2. Approval of meeting agenda

A motion was made by Westemeier, seconded by Parizek, to approve the agenda as presented. The vote was unanimous with 4 votes in favor; the motion carried.

3. Approval of previous meeting minutes

A motion was made by Westemeier, seconded by Parizek, to approve the Feb. 5, 2025, minutes as presented. The vote was unanimous with 4 votes in favor; the motion carried.

4. Regular Business

No expense reports.

5. Special Business

[Review and discuss RFA numbers](#) PB0168, as well as new RFAs concerning sections 411.4, 701.2, 1014.3.4, 1017.1, and 1017.2. If time permits, start reviewing Chapter 17. Schedule tabled items and any outstanding RFAs. The Committee may also consider discussing potential rulemaking recommendations for the Plumbing Board.

- A. [RFA PB0168](#) – Jeffrey Hill, MN Water Quality Association, Chapter 6, Section 611.0 – Revised at 3/5/2025 and 11/6/2024 meetings
- Table 611.4 – Will recommend adoption as presented, except the “Notes” portion. This section was tabled and will be reviewed with appendices.
 - **March 5, 2025: The Committee resolved to recommend adoption of Note 4 with the following revision:** See also Appendix A Recommended Rules for Sizing the Water Supply System, and Appendix C, Alternate Plumbing Systems, for alternate methods of sizing water supply systems.
 - 611.6 Isolation and By-pass:
 - **March 5, 2025: The Committee will recommend adoption of 611.6 Isolation and By-pass with the following revision:** Every water conditioning installation shall include the installation of isolation valves and a by-pass valve a shut off valve. Point of entry equipment and equipment serving multiple domestic fixtures shall have a by-pass appurtenance or a by-pass valve and isolation valves on the inlet and outlet of the equipment which would allow the equipment to be serviced or removed without the need for shutting off the water service completely. Exception: A water conditioning device that serves a point of use outlet shall not be required to have a bypass.
- B. [RFA PB0192](#) – Mike Westemeier, DLI, Chapter 4, 411.4, Personal Hygiene Devices/411.5 Handheld Bidet Sprayers | Chapter 6, Table 610.3 Water Supply Fixture Units and Minimum Fixture Branch
- **March 5, 2025: The Committee tabled RFA PB0192. Westemeier will discuss this with the Department of Health. Chair Becker said the language should note that this is a high-hazard device.**
- C. [RFA PB0193](#) – Mike Westemeier, DLI, Chapter 10, 1014.3.4, Location
- **March 5, 2025: The Committee will recommend adoption of RFA PB0193 as presented.**
- D. [RFA PB0194](#) – Mike Westemeier, DLI, Chapter 7, 701.2, Drainage Piping
- **March 5, 2025: The Committee will recommend adoption of RFA PB0194 with revised language. Westemeier will send Logan a revised RFA.**
- E. [RFA PB0195](#) – Justin Parizek, Chapter 10, 1017.0 Oil and Flammable Liquid Interceptors, 1017.1 Interceptors Required, 1017.2 Interceptor Design Alternatives, 1017. 3 Interceptor Details, 1017.4 Design of interceptors, 1017.5 Maintenance
- **March 5, 2025: The Committee tabled RFA PB0195 until a later date. Parizek will submit a revised RFA.**

Chapter 17, Referenced Tables were reviewed as follows:

- 1701.0 General – recommend keeping as shown in the 2024 UPC
- 1701.1 Standards – recommend keeping as shown in the 2024 UPC
- Table 1701.1 Referenced Standards – recommend keeping as shown in the 2024 UPC, with the following exceptions:

ARCSA

- ARCSA/ASPE/ANSI 63-2020 – **Recommended tabling until a later date**

ASME

- ASME A112.4.4-2017 Plastic Push-Fit Drain, Waste, and Vent (DWV) Fittings Fittings Table 701.2
– **Recommended tabling until a later date**
- ~~ASME A112.18.8-2020~~
- ASME B16.1-2020: Strike only 1208.5.8, 1322.5(2)
- ~~ASME B16.1-2020~~
- ~~ASME B16.5-2020~~
- ~~ASME B16.20-2017~~
- ~~ASME B16.21-2021~~
- ~~ASME B16.24-2016~~
- ~~ASME B16.33-2012~~
- ~~ASME B16.42-2016~~
- ~~ASME B16.44-2012~~
- ~~ASME B16.47-2020~~
- ASME B6.50 2018: Strike only 1321.1, 1321.11
- ASME B16.22-2018: Strike only 1321.1
- ~~ASME B31.3-2020~~
- ~~ASME B36.10M-2018~~
- ASME BPVC Section VIII.1-2021 Rules for Construction of Pressure Vessels - Division 1
Miscellaneous 505.4, ~~1309.5(2)~~, ~~1310.4(2)~~, ~~1312.3(2)~~
- ~~ASME BPVC Section IX-2021~~

ARCSA

- ARCSA/ASPE/ANSI 63-2020 – **Recommended tabling until a later date**

ASSE

- ~~ASSE/IAPMO/ANSI 6010-2021~~
- ~~ASSE/IAPMO/ANSI 6020-2021~~
- ~~ASSE/IAPMO/ANSI 6030-2021~~
- ~~ASSE/IAPMO/ANSI 6035-2021~~
- ~~ASSE/IAPMO/ANSI 12010-2021~~
- ~~ASSP Z359.1-2020~~

ASTM

- ASTM A53/A53M-2020: Strike only 1208.5.2.2(1)
- ~~ASTM A106/A106M-2019a~~
- ~~ASTM A254/A254M-2012 (R2019)~~
- ~~ASTM A268/A268M-2020~~
- ASTM A269/A269M-2015a (R2019): Strike only 1208.5.3.2(2), 1319.1(2)(a)
- ASTM A312/A312M-2021 Standard Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes Piping Table 604.1, ~~1208.5.2.2(3)~~, ~~1319.1(2)(b)~~, ~~1319.1(2)(c)~~
- ~~ASTM A403/A403M-2020~~
- ASTM B88-2020 Standard Specification for Seamless Copper Water Tube Piping Table 604.1, 604.4, 903.2.3, ~~1208.5.3.3~~, ~~1319.1(1)(a)~~
- ~~ASTM B210/B210M-2019a~~
- ~~ASTM B241/B241M-2016~~
- ~~ASTM B280-2020~~
- ~~ASTM B819-2019~~
- ~~ASTM D2513-2020~~
- ~~ASTM E119-2020~~
- ~~ASTM E814-2013a (R2017)~~
- ~~ASTM F1973-2013 (R2018)~~
- ~~ASTM F2509-2015 (R2019)~~
- ~~ASTM F2945-2018~~

AWS

- AWS A5.8M/A5.8-2019 Filler Metals for Brazing and Braze Welding Joints 605.1.1, 705.3.1, ~~1321.3~~
- AWS B2.2/B2.2M-2016

CFR

- ~~49 CFR 192.281~~
- ~~49 CFR 192.283~~

CGA

- ~~CGA G-4.1-2018~~
- ~~CGA M-1-2018~~
- ~~CGA V-5-2019~~
- ~~CSA/ANSI LC 1-2019/CSA 6.26-2019~~

ANSI

- ~~ANSI LC 4-2022/CSA 6.32-2022~~
- ~~CSA/ANSI Z21.15-2021/CSA 9.1-2021~~
- ~~CSA/ANSI Z21.18-2019/CSA 6.3-2019~~
- ~~ANSI Z21.24-2015/CSA 6.10-2015 (R2020)~~
- ~~ANSI Z21.41-2014/CSA 6.9-2014 (R2019)~~
- ~~CSA/ANSI Z21.54-2019/CSA 8.4-2019~~
- ~~ANSI Z21.69-2015/CSA 6.16-2015 (R2020)~~
- ~~ANSI Z21.75-2016/CSA 6.27-2016~~
- ~~CSA/ANSI Z21.80-2019/CSA 6.22-2019~~
- ~~CSA/ANSI Z21.90-2019/CSA 6.24-2019~~
- ~~ANSI Z21.93-2017/CSA 6.30-2017~~

DOE

- ~~DOE STD 3020-2015~~

IAPMO

- ~~ASSE/IAPMO/ANSI 6010-2021~~
- ~~ASSE/IAPMO/ANSI 6020-2021~~
- ~~ASSE/IAPMO/ANSI 6030-2021~~
- ~~ASSE/IAPMO/ANSI 6035-2021~~
- ~~ASSE/IAPMO/ANSI 12010-2021~~
- IAPMO IGC 324-2019: **Recommended tabling until a later date**
- IAPMO IGC 325-2016: **Recommended tabling until a later date**
- IAPMO PS 59-2016ae2: **Recommended tabling until a later date**
- IAPMO/ANSI Z1002-2020: **Recommended tabling until a later date**

ICC

- ICC A117.1-2017 Accessible and Usable Buildings and Facilities Miscellaneous ~~403.2~~, 408.7

MSS

- ~~MSS SP-58-2018~~

NFPA

- ~~NFPA 13D-2022~~
- ~~NFPA 30A-2021~~
- NFPA 31-2020 Standard for the Installation of Oil-Burning Equipment Fuel Gas, Appliances 505.3, ~~1201.1~~
- ~~NFPA 51-2018~~
- ~~NFPA 54/ANSI Z223.1-2021~~
- ~~NFPA 58-2020~~
- ~~NFPA 70-2020~~
- ~~NFPA 88A-2019~~
- ~~NFPA 99-2021~~
- ~~NFPA 211-2019~~

- ~~NFPA 409-2022~~
- ~~NFPA 780-2020~~
- ~~NFPA 1192-2021~~

NSF

- NSF/ANSI 350-2020: **Recommended tabling until a later date**

UL

- ~~UL 103-2010~~
- ~~UL 263-2011 Fire Tests of Building Construction and Materials (with revisions through August 5, 2021)~~
- ~~Miscellaneous 1404.3, 1405.3~~
- ~~UL 378-2006~~
- ~~UL 441-2016 Gas Vents (with revisions through August 28, 2019)~~
- ~~Fuel Gas, Vents 509.1~~
- ~~UL 467-2013 Grounding and~~
- ~~UL 641-2010~~
- UL 723-2018: **Recommended tabling until a later date**
- ~~UL 959-2010~~
- ~~UL 1479-2015~~
- ~~UL 1738-2010~~
- ~~UL 1777-2015~~
- ~~UL 2561-2016~~

1701.2

- Table 1701.2 Standards, Publications, Practices, and Guides: **Tabled, Revisit 301.2.2 at a future meeting; need to schedule**

ARCSA

- ARCSA/ASPE 78-2015: **Recommended tabling until a later date**

ASCE

- ~~ASCE ASCE 25-2016~~

ASABE

- ~~ASABE/ICC 802-2014~~

ASHRAE

- ~~ASHRAE/IES 90.1-2019~~
- ~~ASHRAE/IES 90.2-2018~~

ASME

- ~~ASME B16.40-2019~~
- ~~ASME B31.1-2020~~
- ~~ASME BPVC Section IV-2021~~

ASPE

- ARCSA/ASPE 78-2015 Stormwater Harvesting System Design for Direct End-Use Applications
Miscellaneous: **Recommended tabling until a later date**
- WQA/ASPE/ANSI S-803-2017: **Recommended tabling until a later date**

ASSE

- ~~ASSE/IAPMO/ANSI 5110-2015~~
- ~~ASSE/IAPMO/ANSI 5120-2015~~
- ~~ASSE/IAPMO/ANSI 5130-2015~~
- ~~ASSE/IAPMO/ANSI 5140-2015~~
- ~~ASSE/IAPMO/ANSI 5150-2015~~
- ~~ASSE/IAPMO/ANSI Series 6000-2021~~
- ~~ASSE/IAPMO/ANSI 6015-2021~~
- ~~ASSE/IAPMO/ANSI 6040-2021~~
- ~~ASSE/IAPMO/ANSI 7010-2020~~
- ~~ASSE/IAPMO/ANSI 7020-2020~~
- ~~ASSE/IAPMO/ANSI Series 12000-2021~~

- ~~ASSE/IAPMO/ANSI 12020-2021~~
- ~~ASSE/IAPMO/ANSI 12060-2021~~
- ~~ASSE/IAPMO/ANSI 12061-2021~~
- ~~ASSE/IAPMO/ANSI 12062-2021~~
- ~~ASSE/IAPMO/ANSI 12063-2021~~
- ~~ASSE/IAPMO/ANSI 12080-2021~~
- ~~ASSE/IAPMO/ANSI Series 13000-2015 (R2020)~~
- ~~ASSE/IAPMO/ANSI 13010-2015 (R2020)~~
- ~~ASSE/IAPMO/ANSI Series 16000-2019~~
- ~~ASSE/IAPMO/ANSI 16010-2019~~
- ~~ASSE/IAPMO/ANSI 16040-2019~~
- ~~ASSE/ARCSA/IAPMO/~~
- ~~ANSI Series 21000-2017~~
- ~~ASSE/IAPMO/ANSI 21110-2017~~
- ~~ASSE/IAPMO/ANSI 21120-2017~~
- ~~ASSE/IAPMO/ANSI 21130-2017~~
- ~~ASTM D2517-2018~~
- ~~ASTM F1924-2019~~
- ~~ASTM F1948-2020~~

CFR

- ~~10 CFR 430~~
- ~~10 CFR 431.106~~
- ~~49 CFR 192~~

CGA

- ~~CGA C-9-2019~~
- ~~CGA S-1.3-2020~~
- ~~CGA V-1-2021~~
- ~~ANSI Z21.12b-1994 (R2020)~~
- ~~CSA Z21.13-2017~~
- ~~ANSI Z21.81a-2007/CSA 6.25a-2007 (R2020)~~
- ~~CSA Z21.86-2016~~
- ~~ANSI Z83.11-2016 (R2021)/CSA 1.8-2016 (R2021)~~
- ~~CSA Z317.1-2021~~

ENERGY STAR

- ~~Energy Star-2007~~
- ~~Energy Star-2012 (version 2.0)~~
- ~~Energy Star-2016 (version 6.0)~~
- ~~Energy Star-2018 (version 8.0)~~

EPA

- ~~EPA/600/R-12/618-2012: **Recommended tabling until a later date**~~
- ~~EPA WaterSense-2007 High-Efficiency Lavatory Faucet Specification Fixtures~~
- ~~EPA WaterSense-2009 Specification for Flushing Urinals Fixtures~~
- ~~EPA WaterSense-2014 Specification for Tank-Type Toilets Fixtures~~
- ~~EPA WaterSense-2015 Specification for Flushometer Valve Water Closets Fixtures~~
- ~~EPA WaterSense-2017 Specification for Spray Sprinkler Bodies Miscellaneous~~
- ~~EPA WaterSense-2018 Specification for Showerheads Fixtures~~
- ~~EPA WaterSense-2021 Specification for Soil Moisture-Based Irrigation Controllers Irrigation~~
- ~~EPA WaterSense-2021 Specification for Weather-Based Irrigation Controllers~~

IAPMO

- ~~ASSE/IAPMO/ANSI 5110-2015~~
- ~~ASSE/IAPMO/ANSI 5120-2015~~
- ~~ASSE/IAPMO/ANSI 5130-2015~~

- ASSE/IAPMO/ANSI 5140-2015
- ASSE/IAPMO/ANSI 5150-2015
- ASSE/IAPMO/ANSI 6015-2021
- ASSE/IAPMO/ANSI 6040-2021
- ASSE/IAPMO/ANSI 7010-2020
- ASSE/IAPMO/ANSI 7020-2020
- ASSE/IAPMO/ANSI Series 12000-2021
- ASSE/IAPMO/ANSI 12020-2021
- ASSE/IAPMO/ANSI 12060-2021
- ASSE/IAPMO/ANSI 12061-2021
- ASSE/IAPMO/ANSI 12062-2021
- ASSE/IAPMO/ANSI 12063-2021
- ASSE/IAPMO/ANSI 12080-2021
- ASSE/IAPMO/ANSI Series 13000-2015 (R2020)
- ASSE/IAPMO/ANSI 13010-2015 (R2020)
- ASSE/IAPMO/ANSI Series 16000-2019
- ASSE/IAPMO/ANSI 16010-2019
- ASSE/IAPMO/ANSI 16040-2019
- ASSE/ARCSA/IAPMO/ANSI Series 21000-2017
- ASSE/IAPMO/ANSI 21110-2017
- ASSE/IAPMO/ANSI 21120-2017
- ASSE/IAPMO/ANSI 21130-2017
- ANSI/CAN/IAPMO/ISO 30500-2019
- IAPMO IGC 332-2017a
- IAPMO PS 63-2019
- IAPMO PS 73-2015
- IAPMO PS 86-2019: **Recommended tabling until a later date**
- IAPMO/ANSI Z1000-2019

ICC

- ASABE/ICC 802-2014

ISO

- ANSI/CAN/IAPMO/ISO 30500-2019

NFPA

- NFPA 13R-2022
- NFPA 80-2022
- NFPA 501A-2021
- NFPA 1981-2019
- NFPA 1989-2019
- NFPA 5000-2021

SAE

- SAE J512-1997
- SAE J1670-2008

UL

- UL 70-2001
- UL 80-2007
- UL 144-2021
- UL 252-2017
- UL 296-2017
- UL 404-2010
- UL 536-2021
- UL 569-2013
- UL 726-1995

- ~~UL 1331-2005~~

WQA

- WQA/ASPE/ANSI S-803-2017: **Recommended tabling until a later date**

The outstanding RFAs and tabled items below were reviewed or scheduled as follows:

Tabled RFAs:

- [RFA PB0190](#) – Richard Becker, Chapter 6, Section 601.2.2 – Rec'd 2/4/2025 | **Revised 2/5/2025**
 - March 5, 2025: **Recommended tabling until a later date**
- [RFA PB0191](#) – Anita Anderson, MN Department of Health, Chapter 7, Section 724.2 – Rec'd 2/25/2025
 - March 5, 2025: **Recommended tabling until a later date**

Tabled Appendices:

- Appendix I, Installation Standards
 - 2022 TCNA Handbook for ceramic, glass, and stone tile installation: **Recommended tabling until a later date**

Tabled Codes:

- 411.4 Personal Hygiene Devices: **DLI will submit an RFA for review**
- MPC 601.2.2 Hot Water Circulation (PB0190): **Becker will resubmit RFA PB0190 for review**
- 603.5.6 Protection from Lawn Sprinkler: **DLI is waiting for information.**
- 1017.2 Interceptor Design Alternatives: **Becker to submit RFA for review**
- 1101.12.2.2.2 Combined System: **Becker to submit RFA for review**
- 1106 Siphonic Roof Drainage System: **Recommended tabling until a later date**

The following tabled definitions, codes, appendices, and Chapters 15 and 16 will be reviewed at the meeting on April 2, 2025, as follows:

Tabled Definitions

- Diverter Valve, Gray Water – will review with Chapter 15
- Ground Water – will review with Chapter 15
- Mulch – will review with Chapter 15
- Mulch Basin – will review with Chapter 15

Tabled Appendices:

- Appendix K, Potable Rainwater Catchment Systems – **will review with Chapter 15**
- Appendix S, Onsite Storm Water Treatment Systems – **will review with Chapter 15, along with other water reuse systems**

Chapters:

- Chapter 15 Alternate Water Source – **will be reviewed at the meeting on April 2, 2025**
- Chapter 16 Nonpotable Rainwater Catchment Systems – **will be reviewed at the meeting on April 2, 2025**

At the next meeting, review Chapters 15 and 16, and any related items. If time permits, the Committee will schedule [PB0190](#), [PB0191](#), and [PB0194](#), any new RFAs, and tabled items. The Committee may also consider discussing potential rulemaking recommendations for the Plumbing Board.

A. Announcements

- The Committee scheduled upcoming meetings. Notices will be distributed to the Plumbing Board's interested parties one week in advance. To be added to this email group, please send your request to lyndy.logan@state.mn.us

- The meetings will be held in person at DLI in the Minnesota Room unless otherwise noted. Remote attendance options include WebEx and phone. Meetings will start at 9 a.m. and may extend past noon, concluding by 3 p.m. **Please check future agendas for updates.**
 - April 2, 2025
 - April 29, 2025 (Isanti Room)
 - June 4, 2025 (Isanti Room)
 - July 2, 2025
 - Aug. 6, 2025 (Isanti Room)
 - Sept. 3, 2025 (Washington Room)

B. Adjournment

A motion was made by Parizek, seconded by Westemeier, to adjourn the meeting at 2 p.m. The vote was unanimous, with 4 votes in favor of the motion; the motion passed.

Respectfully submitted,

Karl Abrahamson

Karl Abrahamson, Committee Secretary

Green meeting practices

The State of Minnesota is committed to minimizing in-person environmental impacts by following green meeting practices. DLI is minimizing the environmental impact of its events by following green meeting practices. DLI encourages you to use electronic copies of handouts or to print them on 100% post-consumer processed chlorine-free paper, double-sided.