Wisconsin Department of Safety and Professional Services
Division of Policy Development
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Tony Evers, Governor
Dan Hereth, Secretary

VIRTUAL/TELECONFERENCE
PLUMBING CODE ADVISORY COMMITTEE MEETING
Virtual, 4822 Madison Yards Way, Madison
Contact: Brad Wojciechowski (608) 266-2112
January 30, 2026

The following agenda describes the issues that the Committee plans to consider at the meeting. At the time of the meeting, items may be removed from the agenda. Please consult the meeting minutes for a record of the actions of the Committee.

AGENDA

9:00 A.M.

OPEN SESSION – CALL TO ORDER – ROLL CALL

A. Adoption of Agenda (1-2)

B. Approval of Minutes for July 18, 2025 (3-12)

C. Reminders: Scheduling Concerns

D. Introductions, Announcements and Recognition

E. Administrative Matters – Discussion and Consideration
1) Department, Staff and Committee Updates
2) **2026 Meeting Dates (13)**
3) **Annual Policy Review (14-17)**
4) **Election of Officers (18)**
5) Committee Members
   a. Kiedrowski, Joseph T.
   b. Kressin, Justin T.
   c. Lorge, Randy R.
   d. Musolff, Roger M.
   e. Sheahan, Thomas J.
   f. Statz, Spencer M.
   g. Wanger, Andy A.

F. Administrative Rule Matters – Discussion and Consideration
1) Preliminary Rule Draft of SPS 381 to 387 Relating to Plumbing Code Review **(19-72)**
2) Pending or possible rulemaking items

G. Legislative and Policy Matters – Discussion and Consideration

H. Discussion and Consideration of Items Added After Preparation of Agenda
1) Introductions, Announcements and Recognition
2) Administrative Matters
3) Election of Officers

4) Appointment of Liaisons and Alternates
5) Delegation of Authorities
6) Education and Examination Matters
7) Credentialing Matters
8) Legislative and Policy Matters
9) Administrative Rule Matters
10) Council Liaison Training and Appointment of Mentors
11) Informational Items
12) Division of Legal Services and Compliance (DLSC) Matters
13) Motions
14) Petitions
15) Appearances from Requests Received or Renewed

I. Public Comments

ADJOURNMENT

NEXT MEETING: TBD

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MEETINGS AND HEARINGS ARE OPEN TO THE PUBLIC, AND MAY BE CANCELLED WITHOUT NOTICE.

Times listed for meeting items are approximate and depend on the length of discussion and voting. All meetings are held virtually unless otherwise indicated. In-person meetings are typically conducted at 4822 Madison Yards Way, Madison, Wisconsin, unless an alternative location is listed on the meeting notice. In order to confirm a meeting or to request a complete copy of the board's agenda, please visit the Department website at https:\\dsps.wi.gov. The board may also consider materials or items filed after the transmission of this notice. Times listed for the commencement of any agenda item may be changed by the board for the convenience of the parties. The person credentialed by the board has the right to demand that the meeting at which final action may be taken against the credential be held in open session. Requests for interpreters for the hard of hearing, or other accommodations, are considered upon request by contacting the Affirmative Action Officer or reach the Meeting Staff by calling 608-267-7213.

HYBRID (IN-PERSON/VIRTUAL)
PLUMBING CODE ADVISORY COMMITTEE MEETING
MEETING MINUTES
JULY 18, 2025

PRESENT: Joseph Kiedrowski, Randy Lorge *(virtual)*, Roger Musolff, Thomas Sheahan *(virtual)*, Spencer Statz, Andy Wagner *(virtual)*

ABSENT: Justin Kressin

STAFF: Audra Cohen Plata, Division Administrator; Renee Parton, Assistant Chief Legal Counsel; Brad Wojciechowski, Executive Director; Joseph Ricker, Legal Counsel; Jake Pelegrin, Administrative Rule Coordinator; Ashley Sarnosky, Board Administrative Specialist; Garry Krause, Bureau Director; Michael McNally, Chief, Integrated Services Section; Ryan Boebel, Plumbing Plan Reviewer; Tony Martin, Plumbing Plan Reviewer and other Department Staff

CALL TO ORDER

Brad Wojciechowski, Executive Director, called the meeting to order at 9:01 a.m. A quorum was confirmed with six (6) members present.

ADOPTION OF AGENDA

MOTION: Spencer Statz moved, seconded by Roger Musolff, to adopt the Agenda as published. Motion carried unanimously.

APPROVAL OF MINUTES JUNE 20, 2025

MOTION: Spencer Statz moved, seconded by Roger Musolff, to approve the Minutes from June 20, 2025, as published. Motion carried unanimously.

ADMINISTRATIVE RULE MATTERS

Proposed updates to SPS Rules relating to Plumbing Code

MOTION: Thomas Sheahan moved, seconded by Spencer Statz, to approve item number 17 on SPS 384.11 and Table SPS 384.11 with the following language: ~~**SPS 384.11 Appurtenance, device, fixture, material, and method listings.** Appurtenances, devices, fixtures, materials and methods shall conform to the referenced standard in Table 384.11. Appurtenances, devices, fixtures, materials, and methods shall be listed by a nationally recognized, ANSI accredited, third party agency acceptable to the department. Appurtenances, devices, fixtures, materials, and methods that do not conform to the listed standards may achieve code compliance via Alternate or Experimental approvals in accordance with s. SPS 384.50.~~ Motion carried unanimously.

MOTION: Spencer Statz moved, seconded by Roger Musolff, to delegate to Joseph Kiedrowski to update and approve all standards in cross connection control tables in chs. SPS 382 and 384. Motion carried unanimously.

MOTION: Thomas Sheahan moved, seconded by Andy Wagner, to approve item number
76c on SPS 384.20 (4) (b) 2. b. with the following amended language:
384.20(4)(b)2.b. When a carrier style manufactured framing-affixed support is used for off-the-floor fixtures, the support shall conform to ASME A112.6.2.

Note: The adoption of these standards is intended for "carrier" style, manufactured supports. It is not intended to prohibit the use of other acceptable methods of hanging fixtures.
Motion carried unanimously.

MOTION: Roger Musolff moved, seconded by Spencer Statz, to approve the proposed language in item 32e on SPS 384.20 (5) (o) 6. as presented in the July 18, 2025 meeting agenda materials and to reject the previously approved item number 32e presented at the January 31, 2025 committee meeting. Motion carried unanimously.

MOTION: Andy Wagner moved, seconded by Thomas Sheahan, to approve item number 92 on Table SPS 384.30-9 with the following amended language:

Table 384.30-9
Fittings

Fittings	Referenced Standard(s)[a]
Fittings, Acrylonitrile Butadiene Styrene (ABS)	ASTM D2468, ASTM D3311, ASTM F409
Fittings, Appurtenances or Valves for use in CPVC or CPVC Systems, Specially Engineered	ASTM F1970
Fittings, Cast Bronze	ASME B16.15, ASME B16.24
Fittings, Cast Copper Alloy	ASME B16.18, ASME B16.23, ASME B16.26
Fittings, Cast Iron	ASME B16.1, ASME B16.4, ASME B16.12, ASME B16.45
Fittings, Chlorinated Polyvinyl Chloride (CPVC)	ASTM F437, ASTM F438, ASTM F439
Fittings, Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing	ASTM F1960

Fittings, Cold-Expansion with Metal CompressionSleeves for Crosslinked Polyethylene (PEX) Pipe and SDR9 Polyethylene of Raised Temperature (PE-RT) Pipe	ASTM F2080
Fittings, Copper	ASME B16.22, ASME B16.29
Fittings, Crosslinked Polyethylene (PEX)	ASTM F1807
Fittings, Ductile Iron and Gray Iron	AWWA C110, AWWA C153, ASME B16.42
Fittings, Gray Iron Pipe Flanges and Flanged Fitting Classes 25, 125 and 250	ASME B16.1
Fittings, Gray Iron Threaded Fitting Classes 125 and 250	ASME B16.4
Fittings, Malleable Iron[b]	ASME B16.3
Fittings, Metric- and Inch-Sized Fittings for PEX Pipe	ASTM F2829/F2829M
Fittings, Polyethylene (PE)	ASTM D2609, ASTM D2683, ASTM D3261
Fittings, Polyvinyl Chloride (PVC)	ASTM D2464, ASTM D2466, ASTM D2467, ASTM D3311, ASTM F409, ASTM F1336, ASTM F1866
Fittings, Polyvinyl Chloride (PVC) Gasketed Sewer	ASTM F1336
Fittings, Push-Fit[c,d]	ASSE 1061
Fittings, Push-Fit PEX Mechanical Fittings for PEX Tubing	ASTM F2854
Fittings, Stainless Steel	ASTM A403/A403M, ASTM A774/A774M
Fittings, Standard Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene and PEX Pipe and Tubing	ASTM F1055
Fittings, Steel[c]	ASME B16.5, ASME B16.9, ASME B16.11, ASME B16.28
Fittings, Styrene-Rubber (SR)	ASTM D2852
Gaskets, Rubber for Cast Iron Soil Pipe and Fittings	ASTM C564, CISPI 301, FM 1680

Insert Fittings, Metal, for PE-AL-PE and Crosslinked PEX-AL-PEX Composite Pressure Pipe, Standard Specification for	ASTM D1974
Insert Fittings, Metal, Utilizing a Copper Crimp Ring for SDR9 PEX and SDR9 PEX-AL-PEX Tubing, Standard Specification for	ASTM F2434
Insert Fittings, Metal Press with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE- RT) Tubing	ASTM F3347
Insert Fittings, Plastic, for SDR9 PEX and PE-RT Tubing	ASTM F2735
Insert Fittings, Plastic Press with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE- RT) Tubing	ASTM F3348
Insert Fittings, Plastic Utilizing a Copper Crimp Ring, or Alternate Stainless Steel Clamps for SDR9 Crosslinked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing	ASTM F2159
Insert Fittings, Stainless Steel Clamps for Securing SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) to Metal Insert and Plastic Insert Fittings	ASTM F2098

a. The specific standard edition adopted is specified in s. SPS 381.20.

b. NSF Registration Guidelines for Proprietary Substances and Nonfood Compounds. The NSF Nonfood Compounds Registration Program is a continuation of the USDA product approval and listing program, which is based on meeting regulatory requirements including FDA 21 CFR for appropriate use, ingredient, and labeling: https://info.nsf.org/usda/psnclistings.asp.

c. Nominal size ≤ 2-in. CTS.

d. May not be used in temperature/pressure relief valve drain lines unless they are tested and rated for excessive conditions of 210°F (98.9°C) and 150.0 psig (1034 kPa), per ASME A112.4.1 or ASTM F877.

e. Steel and malleable iron fittings used in a water supply system shall be galvanized in accordance with ASTM A123/A123M

Motion carried unanimously.

MOTION: Spencer Statz moved, seconded by Thomas Sheahan, to approve item number 95c on SPS 384.30 (5) (c) 3. with the following amended language:
384.30(5)(c)3. Backwater valves shall conform to ASME A112.14.1~~, CAN/CSA B181.1~~ or ~~CAN/CSA B181.2~~ CSA B1800.
Motion carried unanimously.

MOTION: Andy Wagner moved, seconded by Randy Lorge, to approve the proposed language in item 29a on SPS 384.30 (5) (c) 8. as presented in the July 18, 2025 meeting agenda materials and to reject the previously approved item number 29a presented at the January 31, 2025 committee meeting. Motion carried unanimously.

MOTION: Spencer Statz moved, seconded by Roger Musolff, to approve the proposed language in item 29d on SPS 384.30 (5) (c) 15. as presented in the July 18, 2025 meeting agenda materials and to reject the previously approved item number 29d presented at the January 31, 2025 committee meeting. Motion carried unanimously.

MOTION: Spencer Statz moved, seconded by Roger Musolff, to approve the proposed language in item 29e on SPS 384.30 (5) (c) 16. as presented in the July 18, 2025 meeting agenda materials and to reject the previously approved item number 29e presented at the January 31, 2025 committee meeting. Motion carried unanimously.

MOTION: Andy Wagner moved, seconded by Spencer Statz, to approve the proposed language in item 29f on SPS 384.30 (5) (c) 17. as presented in the July 18, 2025 meeting agenda materials and to reject the previously approved item number 29f presented at the January 31, 2025 committee meeting. Motion carried unanimously.

MOTION: Andy Wagner moved, seconded by Spencer Statz, to approve item number 95q on SPS 384.30 (5) (c) 26. and SPS 384.30 (5) (c) 27. with the following amended language:
384.30(5)(c)26. is created to read: Automatic temperature control mixing valves shall conform to ASSE 1069.
384.30(5)(c)27. is created to read: Water temperature limiting devices shall conform to ASSE 1070/ASME A112.1070/CSA B125.70.
Motion carried unanimously.

MOTION: Andy Wagner moved, seconded by Randy Lorge, to approve item number 113a on SPS 382.51 (3) (b) with the following amended language:
382.51(3)(b) ~~Termination~~ Terminations of the water service ~~building,~~ manufactured home community water supply system, sanitary sewer, manufactured home community drain system, sanitary, storm sewer, and

manufactured home community drain system, storm serving a manufactured home shall conform to all of the following:
Motion carried unanimously.

MOTION: Andy Wagner moved, seconded by Roger Musolff, to approve item number 113b on SPS 382.51 (3) (b) 1. with the following amended language:
382.51(3)(b)1. The ~~manufactured home~~ water ~~for connection to~~ service or manufactured home community water supply system serving the manufactured home shall terminate a minimum of 6 inches above the surrounding finished grade.
Motion carried unanimously.

MOTION: Spencer Statz moved, seconded by Roger Musolff, to approve item number 113c on SPS 382.51 (3) (b) 2. with the following amended language:
382.51(3)(b)2. The ~~manufactured home building~~ sanitary sewer ~~for connection to service~~ or manufactured home community drain system, sanitary serving the manufactured home shall terminate a minimum of 4 inches above the surrounding finished grade and may not terminate higher than the water service termination or manufactured home water supply system termination.
Motion carried unanimously.

MOTION: Thomas Sheahan moved, seconded by Spencer Statz, to approve item number 113d on SPS 382.51 (3) (b) 3. with the following amended language:
382.51(3)(b)3. The storm sewer or manufactured home community drain system, storm serving the manufactured home shall terminate a minimum of 4 inches above the surrounding finished grade and may not terminate higher than the water service termination or manufactured home water supply system termination.
Motion carried unanimously.

MOTION: Roger Musolff moved, seconded by Thomas Sheahan, to approve item number 114 on SPS 382.51 (3) (c) with the following amended language:
382.51 Manufactured homes and manufactured home communities.

…

(3) MANUFACTURED HOME CONNECTIONS.

...

(c) The ~~manufactured home~~ water service ~~and building,~~ manufactured home community water supply system, sanitary sewer, manufactured home community drain system, sanitary, storm sewer, and manufactured home community drain system, storm for a manufactured home shall be capped or plugged when not connected to a manufactured home.
Motion carried unanimously.

MOTION: Spencer Statz moved, seconded by Roger Musolff, to approve item numbers
71 on Table 381.20-1
72 on Table 381.20-3e
73a on SPS 382.30 (10) (c)
73b on SPS 382.30 (11) (e) 6.
73c on SPS 382.30 (14) (a) 1.
74 on SPS 382.40 (8) (b) 11.
75 on SPS 382.41 (4) (i)
76a on SPS 384.20 (4) (b) 2.
76b on SPS 384.20 (4) (b) 2. a.
76d on SPS 384.20 (5) (am)
77 on SPS 384.20 (5) (b) 1. b.
78a on SPS 384.20 (5) (g)
78b on SPS 384.20 (5) (g) 1.
78c on SPS 384.20 (5) (g) 2.
78d on SPS 384.20 (5) (g) 3.
78e on SPS 384.20 (5) (g) 4.
79a on SPS 384.20 (5) (j) 1. a.
79b on SPS 384.20 (5) (j) 1. b.
79c on SPS 384.20 (5) (j) 1. c.
79d on SPS 384.20 (5) (j) 1. d.
79e on SPS 384.20 (5) (j) 1. e.
80 on SPS 384.20 (5) (j) 2.
81 on SPS 384.20 (5) (L) 1.
82a on SPS 384.20 (5) (m) 1. a.
82b on SPS 384.20 (5) (m) 1. b.
82c on SPS 384.20 (5) (m) 1. c.
82d on SPS 384.20 (5) (m) 1. d.
82e on SPS 384.20 (5) (m) 1. e.
83a on SPS 384.20 (5) (n) 1. a.
83b on SPS 384.20 (5) (n) 1. b.
83c on SPS 384.20 (5) (n) 5.
84a on SPS 384.20 (5) (o) 1. a.
84b on SPS 384.20 (5) (o) 1. b.
85 on SPS 384.20 (5) (o) 7.
86a on SPS 384.20 (5) (r)
86b on SPS 384.20 (5) (r) 1.
86c on Table SPS 384.20-2
87a on SPS 384.20 (6) (a)
87b on SPS 384.20 (6) (b)
87c on SPS 384.20 (6) (c)
88 on SPS 384.20 (7)
89 on Table SPS 384.20-3
90 on Table SPS 384.30-5
91 on SPS 384.30 (5) (a)
93 on SPS 384.30 (5) (bm)

95a on SPS 384.30 (5) (c) 1.
95b on SPS 384.30 (5) (c) 2.
95d on SPS 384.30 (5) (c) 4.
95e on SPS 384.30 (5) (c) 6.
95f on SPS 384.30 (5) (c) 7.
95h on SPS 384.30 (5) (c) 9.
95i on SPS 384.30 (5) (c) 13.
95j on SPS 384.30 (5) (c) 14.
95k on SPS 384.30 (5) (c) 18.
95L on SPS 384.30 (5) (c) 19.
95m on SPS 384.30 (5) (c) 22.
95n on SPS 384.30 (5) (c) 23.
95o on SPS 384.30 (5) (c) 24.
95p on SPS 384.30 (5) (c) 25.
96a on SPS 384.30 (6) (c)
96b on SPS 384.30 (6) (e)
96c on SPS 384.30 (6) (f)
96d on SPS 384.30 (6) (h) 4.
96e on SPS 384.30 (6) (i) 1.
96f on SPS 384.30 (6) (j)
97 on SPS 384.40 (2) (a) 2.
98 on SPS 384.40 (2) (b) 4.
99a on SPS 384.40 (6) (a)
99b on SPS 384.40 (6) (b)
100a on SPS 384.40 (7) (a)
100b on SPS 384.40 (7) (b)
101 on SPS 384.40 (12) (c)
102a on SPS 384.40 (14) (a) 2.
102b on SPS 384.40 (14) (b)
103a on SPS 384.40 (18)
103b on SPS 384.40 (18) (a)
103c on SPS 384.40 (18) (b)
103d on SPS 384.40 (18) (c)
103e on SPS 384.40 (18) (d)
103f on SPS 384.40 (18) (e)
104a on SPS 381.01 (50c)
104b on SPS 381.01 (50e)
104c on SPS 381.01 (153e)
104d on SPS 381.01 (153m)
104e on SPS 381.01 (153s)
104f on SPS 381.01 (284)
105a on SPS 382.30 (5) (d)
105b on SPS 382.30 (5) (e)
105c on SPS 382.37
106a on SPS 382.37 (3)
106c on SPS 382.37 (3) (a) 8.
106d on SPS 382.37 (3) (a) 9.

106e on SPS 382.37 (3) (a) 10.
106f on SPS 382.37 (3) (a) 11.
107a on SPS 382.37 (3) (b) 1.
107b on SPS 382.37 (3) (b) 7.
107c on SPS 382.37 (3) (b) 8.
107d on SPS 382.37 (3) (b) 9.
108a on SPS 382.51 (1)
108b on SPS 382.51 (1) (a)
108c on SPS 382.51 (1) (b)
108d on SPS 382.51 (1) (c)
109a on SPS 382.51 (1)
109b on SPS 382.51 (1) (a)
109c on SPS 382.51 (1) (b)
109d on SPS 382.51 (1) (c)
109e on SPS 382.51 (1) (d)
109f on SPS 382.51 (1) (e)
109g on SPS 382.51 (1) (f)
109h on SPS 382.51 (1) (g)
109i on SPS 382.51 (1) (h)
110a on SPS 382.51 (2) (a)
110b on 382.51 (2) (b)
110c on SPS 382.51 (2) (c)
110d on SPS 382.51 (2) (d)
110e on SPS 382.51 (2) (e)
111a on SPS 382.51 (2) (a)
111b on SPS 382.51 (2) (b)
111c on SPS 382.51 (2) (c)
111d on SPS 382.51 (2) (d)
111e on SPS 382.51 (2) (e)
111f on SPS 382.51 (2) (f)
111g on SPS 382.51 (2) (g)
111h on SPS 382.51 (2) (h)
111i on SPS 382.51 (2) (i)
112 on SPS 382.51 (3) (a) 1.
113a on SPS 382.51 (3) (b)
115 on Table SPS 384.30-2
as presented in the July 18, 2025 meeting agenda materials. Motion carried unanimously.

NOTE: Items 94 on Table SPS 384.30-10 and 29 on SPS Table 382.41-1 have been delegated to Joseph Kiedrowski for future approval.

Department presentation on Water Demand Calculator

MOTION: Andy Wagner moved, seconded by Tom Sheahan, to recommend that DSPS allow use of the IAPMO Water Demand Calculator as written in the DSPS approved Alternate Standard to determine peak demand for building water supply and principal branches, while utilizing the time-tested past practice of determining demand for fixture supplies and secondary branches with WSFU & GPM method using Table 382.40-1b, Table 382.40-2 and, Table 382.40-3. Motion carried unanimously.

ADJOURNMENT

MOTION: Roger Musolff moved, seconded by Randy Lorge, to adjourn the meeting. Motion carried unanimously.

The meeting adjourned at 1:21 p.m.

PLUMBING CODE ADVISORY COMMITTEE

2026 Meeting Dates

Meeting Date	Start time	Location	Agenda Item Deadline
Friday, January 30, 2026	9:00 AM	Virtual	**1/20/26**

State of Wisconsin
Department of Safety & Professional Services

AGENDA REQUEST FORM

1) Name and title of person submitting the request: Audra Cohen-Plata, DPD Division Administrator
2) Date When Request Submitted: 12/11/2025
3) Name of Board, Committee, Council, Section**: All Boards**
4) Meeting Date: **First Meeting of 2026**

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5) Attachments: **Yes**
6) How should the item be titled on the agenda page? **Administrative Matters: Annual Policy Review**
7) Place Item in: **Open Session**
8) Is an appearance before the Board being scheduled? No
9) Name of Case Advisor(s), if applicable: N/A

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10) Describe the issue and action that should be addressed:

Please be advised of the following policy item attachments:

1) 2026 Annual Policy Review Memo
2) Timeline of a Meeting
3) Sample Per Diem Report

Wisconsin Department of Safety and Professional Services
Division of Policy Development
4822 Madison Yards Way
PO Box 8366
Madison, WI 53705

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DATE: January 1, 2026
TO: DSPS Board, Council, and Committee Members
FROM: Division of Policy Development
SUBJECT: 2026 Administrative Policy Reminders

Please be advised of the following policy items:

1. In-Person and Virtual Meetings: Depending on the frequency of scheduled meetings, discussion topics, and member availability, DSPS may host one or more in-person meetings. Virtual connection options are available for all board meetings. If you are traveling internationally, please see item 9 below.

2. Attendance/Quorum: Thank you for your service and commitment to meeting attendance. If you cannot attend a meeting or have scheduling conflicts impacting your attendance, please let us know as soon as possible. A quorum is required for Boards, Sections, and Councils to meet pursuant to Open Meetings Law. Connect to / arrive at meetings 10 minutes before posted start time to allow for audio/connection testing, and timely Call to Order and Roll Call. Virtual meetings include viewable onscreen materials and A/V (speaker/microphone/video) connections.

3. Walking Quorum: Board/Section/Council members must not collectively discuss the body's business outside a properly noticed meeting. If several members of a body do so, they could be violating the open meetings law.

4. Mandatory Training: All Board Members must complete Public Records and Ethics Training, annually. Register to set up an account in the Cornerstone LearnCenter online portal or Log in to an existing account.

5. Agenda Deadlines: Please communicate agenda topics to your Executive Director before the agenda submission deadline at 12:00 p.m., eight business days before a meeting. (Attachment: Timeline of a Meeting)

6. Travel Voucher and Per Diem Submissions: Please submit all Per Diem and Reimbursement claims to DSPS within 30 days of the close of each month in which expenses are incurred. (Attachment: Per Diem Form) Travel Vouchers are distributed on travel approval.

7. Lodging Accommodations/Hotel Cancellation Policy: Lodging accommodations are available to eligible members for in-person meetings. Standard eligibility: the member must leave home before 6:00 a.m. to attend an in-person meeting by the scheduled start time.

a. If a member cannot attend a meeting, they must cancel their reservation with the hotel within the applicable cancellation timeframe.
b. If a meeting is changed to occur remotely, is canceled, or rescheduled, DSPS staff will cancel or modify reservations as appropriate.

8. Inclement Weather Policy: In inclement weather, the DSPS may change a meeting from an in-person venue to a virtual/teleconference only.

9. International Travel: Use of State-managed IT resources and access of State data outside the United States are strictly prohibited, as they cause an unacceptable level of cybersecurity risk. This prohibition includes all State-provided or State-managed IT resources housed on personal devices. Please advise your Executive Director of any planned international travel commitments that may coincide with board meetings or other board business in advance of your departure.

Timeline of a Meeting

At least 2 weeks (10 business days) prior to the meeting
Submit Agenda Item suggestions to the Board's Executive Director. Include background materials. Copyright-protected materials must be accompanied by written permission from the publisher to share documents.

8 business days prior to the meeting
The Agenda is drafted. (All agenda materials are due to the Department by 12:00 p.m.)

7 business days prior to the meeting
The draft agenda is submitted to the Executive Director; the Executive Director transmits it to the Chair for review and approval.

5 business days prior to the meeting
The approved agenda is returned to the Board Administration Specialist (BA) for agenda packet production and compilation.

4 business days prior to the meeting
Agenda packets are posted on the DSPS Board SharePoint site and on the Board webpage.

Agenda Item Examples:

- Open Session Items
  - Public Hearings and Administrative Rules Matters
  - Administrative Matters
  - Legislation and Policy Matters
  - Credentialing Matters
  - Education and Exam Issues
  - Public Agenda Requests
  - Current Issues Affecting the Profession
- Closed Session items
  - Deliberations on Proposed Disciplinary Actions
  - Monitoring Matters
  - Professional Assistance Procedure (PAP) Issues
  - Proposed Final Decisions and Orders
  - Orders Fixing Costs/Matters Relating to Costs
  - Credentialing Matters
  - Education and Exam Issues

Thursday of the Week Prior to the Meeting
Agendas are published for public notice on the Wisconsin Public Notices and Meeting Minutes website: **publicmeetings.wi.gov**.

1 business day after the Meeting
"Action" lists are distributed to Department staff detailing board actions on closed session business.

5 business days after the Meeting
"To Do" lists are distributed to staff to ensure that board open session decisions are acted on and/or implemented within the appropriate divisions in the Department. Minutes approved by the board are published on the Wisconsin Public Notices and Meeting Minutes website: **publicmeetings.wi.gov**.

Department of Safety and Professional Services
PER DIEM REPORT

INSTRUCTIONS: Record board-related activities by date, indicate relevant purpose code, the duration of time spent in B-code activities, location, and activity description. Only one $25.00 per diem payment will be issued on any given calendar day. Submit one form per month and within 60 days of the last activity being reported. Send completed forms to your Board's Administrative Specialist.

Purpose Codes:

A CODE **Official meetings including Board Meetings, Hearings and Examinations and Test Development Sessions** (automatic day of per diem) Examples: board, committee, board training or screening panels; Senate Confirmation hearings, legislative and disciplinary hearings, or informal settlement conferences; test administration, test review or analysis events, national testing events, tour of test facilities, etc.

B CODE **Other** (One (1) per diem will be issued for every five (5) hours spent in category B, per calendar month): i.e., review of disciplinary cases, consultation on cases, review of meeting materials, board liaison work, e.g., contacts regarding Monitoring, Professional Assistance Procedure, Credentialing, Education and Examinations

Name of Examining Board or Council	Board or Council Member's Name
Month Year	Employee ID Number

Date	Purpose Code **A or B**	Duration of **B activity** **Hours: Minutes**	Where Performed **(Home, DSPS, or City, State)**	Activity **Describe Activity Performed (see purpose codes)**
TOTALS				

CLAIMANT'S CERTIFICATION The Board/Council member named above, certifies, in accordance with § 16.53, Wis. Stats., that this account for per diem, is just and correct; and that this claim is for service necessarily incurred in the performance of duties required by the State, as authorized by law. (Rev.04/24)

Board Member Approval & Date: _____

TOTAL DAYS CLAIMED: _____ @ $25.00 = _____ Supervisor Approval & Date: _____

PLUMBING CODE ADVISORY COMMITTEE EXAMINING BOARD

2021 Elections

2025 OFFICERS	
Chairperson	*Vacant*
Vice Chairperson	*Vacant*
Secretary	Joseph Kiedrowski

State of Wisconsin
Department of Safety & Professional Services

AGENDA REQUEST FORM

1) Name and title of person submitting the request:	2) Date when request submitted:
Jake Pelegrin **Administrative Rules Coordinator**	**1/20/26** **Items will be considered late if submitted after 12:00 p.m. on the deadline date which is 8 business days before the meeting**

3) Name of Board, Committee, Council, Sections:

Plumbing Code Advisory Council

4) Meeting Date:	5) Attachments:	6) How should the item be titled on the agenda page?
1/30/26	☒ Yes ☐ No	**Administrative Rule Matters – Discussion and Consideration** 1. Preliminary rule draft of SPS 381 to 387 relating to Plumbing Code Review 2. Pending or possible rulemaking items

7) Place Item in:	8) Is an appearance before the Board being scheduled? *(If yes, please complete Appearance Request for Non-DSPS Staff)*	9) Name of Case Advisor(s), if required:
☒ Open Session ☐ Closed Session	☐ Yes ☒ No	**N/A**

10) Describe the issue and action that should be addressed:

Attachments:
-Preliminary rule draft of SPS 381 to 387 relating to Plumbing Code Review

11) Authorization

Jake Pelegrin 1/20/26

Signature of person making this request **Date**

Supervisor (if required) **Date**

Executive Director signature (indicates approval to add post agenda deadline item to agenda) **Date**

Directions for including supporting documents:
1. This form should be attached to any documents submitted to the agenda.
2. Post Agenda Deadline items must be authorized by a Supervisor and the Policy Development Executive Director.
3. If necessary, provide original documents needing Board Chairperson signature to the Bureau Assistant prior to the start of a meeting.

Revised 03/2021

STATE OF WISCONSIN
DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES

IN THE MATTER OF RULEMAKING PROCEEDINGS BEFORE THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES	: : : :	NOTICE OF TIME PERIOD FOR COMMENTS FOR THE ECONOMIC IMPACT ANALYSIS

NOTICE IS HEREBY GIVEN of the time period for public comment on the economic impact of this proposed rule of the Department of Safety and Professional Services, including how this proposed rule may affect businesses, local government units and individuals. The comments will be considered when the Department prepares the Economic Impact Analysis pursuant to § 227.137. Written comments may be submitted to:

Jake Pelegrin, Administrative Rules Coordinator
Office of Chief Legal Counsel
Department of Safety and Professional Services
P. O. Box 14497
Madison, WI 53708-0497
DSPSAdminRules@wisconsin.gov

The deadline for submitting economic impact comments is February 2, 2026.

PROPOSED ORDER

An order of the Department of Safety and Professional Services to ***repeal*** SPS 381.01 (22), (50e) (a) and (b) and (c), (80m), (153m) (a) and (b) and (c), (203m), 382.32 (3) (a) 3. (Note), (4) (b) 1. e., 382.33 (7) (a) 3. and (9) (fm), 382.34 (4) (c) (Note), (15) (g), 382.40 (5) (am), (8) (b) 10. (Note), (d) 3. b. and (i) 3. (Note), 382.41 (4) (o), 382.50 (3) (b) 10. and 11. b., Table 384.11, 384.20 (6) (b), 384.30 (5) (c) 4. and 6. and 7. and 8. and 9. and 10. and 13. and 14. and 15. and 16. and 17. and 18. and 19., 384.40 (2) (a) 2., (b) 4., and (12) (a); to ***amend*** SPS 381.01 (50c) and (50e) (intro.), (65m), (80), (82), (116), (117m), (152), (153e) and (153m) (intro.), (153s), (203), (204), (231m), and (284), Table 381.20-3e, Table 381.20-4, Table 381.20-5, Table 381.20-12, Table 381.20-13, 382.20 (1) (c), Table 382.20-1, (4) (d) 1. a., and (13) (e), 382.22 (2) (b), 382.30 (10) (c) (intro.), (14) (a) 1., 382.31 (17m) (intro.) and (f), 382.32 (3) (a) (intro.), 1. and 2. (intro.), a. and b., (4) (b) 1., a. and b. and d., 382.33 (5) (b) (Note), (9) (g) 1., 382.34 (5) (d) 4., 382.35 (3) (k), Table 382.36-1 (Title), Table 382.36-3, 382.36 (7) (d) 1m., (e), (8) (b) 3., 382.37 (Title), (3) (Title), (a) (intro.), 3. and 6., (b) 1., 382.40 (3) (b) (intro.), (c) 4., (d) 4., (4) (c) 1. d., (5) (a), (6) (a), (c) 1. to 3., 4. a., (7), (Note 1), (c) and (e) and (g), (8) (b) 10., 382.41 (3) (a) 1., (b) 3. a., 6. b., (c) 1. (intro.) and 2. and 3., (4) (a) and (d) (intro.), (e) 1. to 3., (g) 1. and 3., (i) and (k) (intro.), 2m., (m) and (n) (intro.), 2., (5) (c), (d) 2., (e) 1. (intro.), 3. a., (f) (intro.), (g), 382.50 (3) (b) 14., 382.51 (3) (a) 1., (b) (intro.), 1. and 2., (c), 383.21 (3) (f), 383.54 (3) (b) and (4) (a), 384.11, 384.20 (2) (b) and (Note), (4) (b) 2., (5) (a), (b) 1. b., (d), (e) 1., (f) 1., (g) (Title) and 1. to 3., (h) 1., (j) 1. a. to e., 2., (5) (L) 1. and 4., (m) 1. a. to e., (n) 1. a. and b., 5., (o) 1. a. and b., and 6., (p) 6., (q) and (r) (Title) and 1., (6) (a), (c) (intro.), 2. b. and c., Table 384.30-1, Table 384.30-2, Table 384.30-3, Table 384.30-4, Table 384.30-5, 384.30 (3) (d), (e) 3. (Note), Table 384.30-6, Table 384.30-7, Table 384.30-8, (5) (a), (c) 1. to 3., (d) 1., (6) (c) and (e) and (f), (i) 1. and (j), 384.40 (6) (a) and (b), (7) (a) and (b), (8) (a) and (d), (9) (a), (12) (intro.), (b)

and (c), (14) (a) 2., (b), (16), and (18); to ***repeal and recreate*** SPS 325.01, 381.01 (141), Table 382.22-1, 382.40 (7) (g) 4., Table 382.41-1, 382.51 (1) and (2); and to ***create*** SPS 381.01 (8m), (50a), (50w), (51m), (152) (Note), (153w), (201g), (201r), 382.30 (5) (d) and (e), (11) (e) 6., (15), Table 381.20-3a, 382.32 (3) (a) 4. and 5., 382.36 (8) (b) 3. (Note), 382.37 (3) (a) 8. to 11., (b) 7. and 8. and 9., 382.40 (3) (b) 1. c., (f), (7) (Note 2) and (Note 3), (8) (b) 11., (L), 382.41 (3) (b) 8., (d) 1. (Note), 382.51 (3) (b) 3., 384.20 (4) (b) 2. a. and b., (5) (am), (dm), (fm), (g) 4., (L) 5., (o) 7., Table 384.20-2, (7), Table 384.20-3, 384.30 (1) (a) to (f), (1m), Table 384.30-9, (5) (bm), Table 384.30-10, (c) 22. to 27., (6) (h) 4., 384.40 (12m), (16) (a) to (e), and (18) (a) to (e), relating to plumbing code review.

Analysis prepared by the Department of Safety and Professional Services.

ANALYSIS

Statutes interpreted:

Sections 145.02 (1), 145.20 (2) (i) and (5) (a), and 145.24 (2), Stats.

Statutory authority:

Sections 101.02 (1) (b), 145.02 (2) (a) and (b), 145.02 (3) (g) and (h), 145.02 (4) (a) and (b), and 227.11 (2) (a), Stats.

Explanation of agency authority:

Section 101.02 (1) (b), Stats.: "[t]he department shall adopt reasonable and proper rules and regulations relative to the exercise of its powers and authorities and proper rules to govern its proceedings and to regulate the mode and manner of all investigations and hearings…"

Section 145.02 (2) (a), Stats.: "[t]he department shall have general supervision of all plumbing described under sub. (1). The department shall promulgate rules that shall uniformly apply to all types of buildings, private or public, rural or urban, including buildings owned by the state or any political subdivision. The rules promulgated by the department shall constitute the state plumbing code. The state plumbing code shall comply with ch. 160. To the extent that the historic building code applies to the subject matter of these standards, the standards do not apply to a qualified historic building if the owner elects to be subject to s. 101.121. The standards do not apply to a primitive rural hunting cabin, as defined in s. 101.61 (3)."

Section 145.02 (2) (b), Stats.: "[t]he department shall promulgate rules that establish separate plumbing standards applicable only to camping units that are set in a fixed location in a campground for which a permit is issued under s. 97.67, that contain a sleeping place, and that are used for seasonal overnight camping. The standards established in the rules shall also take into account the uses, including seasonal use, that are unique to recreational and educational camps, as defined in s. 101.053 (1). If the department has appointed one or more committees under s. 227.13 to advise the department on rule making with respect to private on-site wastewater treatment systems or other plumbing systems, the department shall promulgate the rules required under this paragraph in consultation with those committees."

Section 145.02 (3) (g) and (h), Stats.: "[t]he department may exercise such powers as are reasonably necessary to carry out the provisions of this chapter. It may, among other things:

(g) By rule, fix fees for the examination and approval of plans of plumbing systems and collect the same.

(h) Promulgate rules concerning the testing of cross-connection control devices, including rules identifying the types of cross-connection control devices that may be tested only by a registered cross-connection control tester and the circumstances under which cross-connection control devices shall be tested."

Section 227.11 (2) (a), Stats.: "[e]ach agency may promulgate rules interpreting the provisions of any statute enforced or administered by the agency, if the agency considers it necessary to effectuate the purpose of the statute, but a rule is not valid if the rule exceeds the bounds of correct interpretation."

Related statutes or rules:

- Chapters SPS 361 to 366, Wisconsin Commercial Building Code
- Chapters SPS 320 to 325, Uniform Dwelling Code

Plain language analysis:

Chapters SPS 381 to 387, referred to collectively as the "Wisconsin Plumbing Code", apply uniformly to the design, construction, installation, supervision, maintenance, and inspection of plumbing, including POWTS, sanitary and storm drainage, water supplies, wastewater treatment, dispersal, or discharge for buildings, as well as plumbing products. The Wisconsin Plumbing Code is uniform in application, meaning municipalities may not enact ordinances that are more stringent, except as specifically permitted.

Pursuant to s. 145.02, Stats., the purpose of the plumbing code is to provide that all plumbing in connection with buildings and facilities in the state, including buildings owned by the state or any political subdivision shall be safe and sanitary as to safeguard the public health and the waters of the state. While Wisconsin does not adopt a nationally recognized model plumbing code, the proposed rule incorporates several nationally recognized technical standards, most of which are also incorporated in the model plumbing codes. This rule project updates technical standards, either incorporated by reference or permitted for use, to align Wisconsin's rules with national standards and best practices for safe plumbing systems.

The objective of the proposed rule is to fix inconsistencies between the current plumbing code, other department rules, and other national standards the department has adopted. In addition, this project addresses changes in federal standards for use of lead in plumbing materials. This project will modify code language to help increase clarity for stakeholders. The department has consulted with the Plumbing Code Advisory Committee and other stakeholders to improve consistency between plumbing code, other department codes, national regulations and standards. This rule project reviewed requirements for the design, construction, installation, inspection and maintenance of plumbing systems. This rule also examined the requirements to ensure the quality and proper

installation of plumbing products. Finally, standards incorporated by reference have been reviewed and updated as needed.

In ch. SPS 381, Definitions and Standards, the rule makes several changes to definitions. The rule repeals some definitions that are considered obsolete in the industry. The rule creates new definitions for several terms frequently used in the existing code, and for new terms developed in this project. The rule also amends several definitions as necessary to correspond with amended language in this rule, especially with cross connection control, manufactured homes, and campgrounds. The rule recreates the definition of "lead-free" to bring the term in compliance with federal lead-free requirements. Also in ch. SPS 381, the rule amends several of the tables regarding incorporating plumbing standards by reference. The rule also amends the titles of some standards for consistency with the official titles of the standards and for consistency within the code.

In ch. SPS 382, Design, Construction, Installation, Supervision, Maintenance and Inspection of Plumbing, the rule project aims to update technical standards either incorporated by reference or permitted for use, and to align Wisconsin's Plumbing Code with national standards and best practices for safe plumbing systems. Many identified updates relate to cross connection control. Names of cross connection control assemblies, methods, and devices are amended to match updated terminology in the field. Also, the rule clarifies that assemblies serving automatic fire sprinkler systems are not required to be registered with the department. Additionally, the rule clarifies that reporting to the department is not required for removal or replacement of an assembly serving an automatic fire sprinkler system, that is not required to be registered with the department, unless the assembly is already registered. The project created several provisions and amended provisions that will clarify regulations on plumbing for campgrounds, recreational vehicle parks, and manufactured homes. The rule created a new subsection with more comprehensive regulations for elevator threshold drains. Further, the project clarified appropriate requirements for any water heater. The project also made new requirements for check valves. The rule includes master plumbers in the list of professions allowed to provide analysis on sizing of water supply piping. In general, the project updated code language to increase clarity and prevent stakeholder confusion. The updated technical regulations will increase safety and efficiency.

In ch. SPS 383, Private Onsite Wastewater Treatment Systems, the project updated requirements to clarify that a governmental unit may deny the issuance of a sanitary permit if an existing POWTS system is determined to be failing and another system is readily available. The rule specified some new requirements for POWTS inspection and servicing including increased inspection requirements in some situations.

In ch. SPS 384, Plumbing Products, the project makes changes to the organization of the chapter to increase clarity, organization, and ease of use. Specifically, the project repealed Table 384.11, and recreated and reorganized the component parts of the table into relevant sections of the chapter. Additionally, the rule removed obsolete standards and incorporated new standards as needed. The project created new, smaller tables for several of the component parts of the repealed Table 384.11. The rule updated code language and applicability for some standards to increase safety and efficiency in response to stakeholder feedback and to align with national standards. Further, the rule created an exception for allowed sizing of shower compartments. The project extends the requirements for floor drains to also apply to trench drains. The rule creates new specifications for pipe and tubing and conditions of installation of pipe and tubing in general. The project addresses

changes for the purpose of modernizing plumbing products and increasing safety.

Summary of, and comparison with, existing or proposed federal statutes and regulations:

Several existing federal regulations relate to plumbing code in Wisconsin. Some of these regulations require compliance with prior editions of the International Plumbing Code (IPC), a national model code developed by the International Code Council (ICC), and the Uniform Plumbing Code (UPC), a national model code developed by the International Association of Plumbing and Mechanical Officials. A search of the United States Code (USC) found the following existing federal rules that impact plumbing:

The provisions of 24 USC § 3280.601-612 cover the "Manufactured Home Construction and Safety Standards" law. This law sets standards for plumbing materials, fixtures, and equipment installed within or on manufactured homes.

"Safe Drinking Water Act" is codified under 42 USC § 300f-9. This law regulates plumbing for the purpose of protecting drinking water from contaminants. The provisions identify the acceptable level of contaminants in drinking water.

Under 42 USC § 300g-1, the provisions of the "National Primary Drinking Water Law" are codified. This law establishes primary drinking water regulations pursuant to section 1412 of the Public Health Service Act, as amended by the Safe Drinking Water Act. Regulated by the US Environment Protection Agency (EPA). The regulations are applicable to public water systems including monitoring requirements for lead and copper in tap water.

"The Reduction of Lead in Drinking Water Act" is a federal law that amended the Safe Drinking Water Act (SDWA). The Act sets new, lower standards for permitted lead amounts in plumbing products that encounter potable water. SDWA is codified under 42 USC § 300g-6 section 1417. The law reduces the permissible levels of lead in the wetted surfaces of pipes, pipe fittings, plumbing fittings, and fixtures to a weighted average of not more than 0.25%. EPA has primary responsibility for interpreting SDWA. Individual states utilize health or plumbing codes or other standards consistent with the SDWA and EPA regulations to enforce those standards.

The provisions of 40 USC § 143.10-143.20 and 42 USC § 300j-24 identify guidance on lead contamination drinking water. The identified provisions identify guidance to decrease or eliminate lead contamination in drinking water. Each state is required to develop a testing program to remedy lead contamination and meet the lead-free federal definition.

The Food and Drug Administration sets standards for manufacturing practice for finished pharmaceuticals. Federal codes under 21 CFR § 210-211 establish standards for plumbing in buildings and facilities that manufacture pharmaceuticals.

The federal code section, 30 CFR § 71.402 was established by the Department of Labor to protect miner's safety and health. The code sets minimum requirements for bathing facilities, changing rooms, and sanitary flush toilet facilities.

The Energy Policy and Conservation Act, as amended (EPCA), requires the Department of Energy

to administer an energy and water conservation program for certain major household appliances and commercial equipment, including certain plumbing products such as shower heads, faucets and water closets. The regulations implementing EPCA are found under 10 CFR § 430.

Summary of public comments received on statement of scope:

A preliminary public hearing on Statement of Scope SS 073-24 was held on August 2, 2024. Three comments were received in support of the scope statement. Steve Breitlow submitted a comment representing Plumbers Local Union 75. Jeffrey Beiriger submitted a comment representing the Plumbing-Heating-Cooling-Contractors Association of Wisconsin. Jeff Gaecke representing the Mechanical Contractors Association of Wisconsin and Jonathan Kowalski representing the Plumbing and Mechanical Contractors Association jointly submitted a comment.

Name: Steve Breitlow
Organization: Plumbers Local Union 75

"On behalf of Plumbers Local Union 75, I support this scope statement and this rule making initiative. Upon thorough analysis and application of the final Plumbing Code update completed last year, several issues were identified that warrant clarification and review.

I look forward to a robust, but expeditious, process to ensure appropriate changes are made for consistent regulation pursuant to the Code, proper training and education pursuant to the Code, and most importantly, maintaining public health and safety."

Name: Jeffrey Beiriger
Organization: Plumbing-Heating-Cooling-Contractors Association of Wisconsin

"I am writing on behalf of the Plumbing-Heating-Cooling-Contractors Association of Wisconsin, in support of the Scope Statement for SS 073-24.

PHCC-WI has worked closely with the Department on changes to the plumbing and related codes for many years, including the project that resulted in the code changes in the Fall of 2023.

Upon completion of that project, we were advised that there were several places where changes would be necessary for the integrity of the code - incorrect references, missing references, etc.

While unfortunate, what we hoped for then - and now - is an updated plumbing code that is correct, and can be used effectively by designers of plumbing systems, apprentice and journeyworker instructors, contractors, inspectors, plan reviews and others.

This project is necessary to achieve that goal and so we support the Scope Statement and look forward to continuing our partnership, working with the DSPS, to achieve a more perfect plumbing code, a vital component of public health and safety for the people of Wisconsin."

Name: Jeff Gaecke and Jonathan Kowalski
Organization: Mechanical Contractors Association of Wisconsin and Plumbing and Mechanical Contractors Association

"On behalf of the Mechanical Contractors Association of Wisconsin and the Plumbing and Mechanical Contractors Association, we are joining forces to support the review of Scope Statement SS 073-24 for rules SPS 381 to 387, relating to Plumbing Code. Upon reviewing the final Plumbing Code update completed last year, several issues were identified that require clarification and review. We look forward to the rule making process to ensure appropriate changes are made for consistent regulation pursuant to the code, proper training and education pursuant to the code, and most importantly, maintaining public health and safety."

Comparison with rules in adjacent states:

Illinois:

The Illinois Plumbing Code is administered by the Illinois Department of Public Health (IDPH). The IDPH licenses plumbers, plumbing contractors, plumbers' apprentices, irrigation contractors and retired plumbers other than those regulated by a local ordinance under the Illinois Plumbing License Law. All people engaged in plumbing must comply with the minimum code of standards for plumbing and the fixtures, materials, design, and installation methods of plumbing systems. The Plumbing Code Advisory Council, whose members are appointed by the state's governor, consults with and advises the IDPH.

Cities, villages, or incorporated towns with a population of 500,000 or more may, by an ordinance containing provisions substantially the same as those in the Illinois Plumbing License Law and specifying educational or experience requirements equivalent to those prescribed in the Illinois Plumbing License Law, provide for a board of plumbing examiners to conduct examinations for, and to issue, suspend, or revoke, plumbers' licenses, within such city, village or incorporated town (77 Ill. Admin. Code 890).

Iowa:

The Iowa Plumbing Code is administered by the Iowa Department of Public Health (IDPH). Iowa currently adopts the 2024 edition of the Uniform Plumbing Code (UPC), including Sections 101 and 102, chapters 2-17 and appendices A and M. with amendments. (Iowa Admin. Code r. 641-25.1(105)). Iowa law requires the Iowa Plumbing and Mechanical Systems Board to adopt the most current version of the UPC within six months of its release as the state's plumbing code to govern the installation of plumbing in the state. Local jurisdictions are not required to adopt by ordinance the state plumbing code but a local jurisdiction that adopts the state plumbing code may adopt standards that are more restrictive. Local jurisdictions are not required to conduct inspections or take any other enforcement action under the state plumbing code regardless of whether they adopt the state plumbing code. A city may set standards and requirements which are more stringent, but not less stringent, than those imposed by state law.

The Iowa Plumbing and Mechanical Systems board performs investigations and administers and enforces Iowa law regarding the licensing and regulation of plumbers, mechanical professionals, and contractors. Anyone working in these disciplines in the state of Iowa is required to be licensed with the board except for an enumerated list of activities found in Iowa Admin. Code r. 105.11, primarily consisting of individuals performing specific work on their own home, professionals

engaged in related trades, and government employees working on government facilities.

Michigan:

The Plumbing Division of the Michigan Department of Licensing and Regulatory Affairs (LARA) is responsible for the administration and enforcement of the Michigan Plumbing Code and the plumbing provisions of the Michigan Residential Code by conducting inspections of plumbing equipment and installations. Michigan's plumbing code establishes minimum standards and currently adopts the 2021 edition of the International Plumbing Code (Mich. Admin. Code r. 408.30701). Michigan licenses plumbing apprentices, journey plumbers, master plumbers, plumbing contractors, and plumbing inspectors. Michigan law creates a state plumbing board consisting of the director of the department of licensing and regulatory affairs or his or her authorized representative, the director of the department of environmental quality or his or her authorized representative, a member or employee of the drinking water and radiologic protection division of the department of environmental quality, selected by the director of the department of environmental quality, and five members who are appointed by the governor for 3-year terms and who are United States citizens and residents of the state. The board recommends to the state construction code commission the promulgation of rules the board considers necessary for the safe design, construction, installation, alteration, and inspection of plumbing. The board may also recommend acceptability under the state construction code for a material, product, method of manufacturing, or method of construction or installation of plumbing equipment. (See MCL §§ 339.6101 to 339.6133).

Minnesota:

The Minnesota Plumbing Code is administered and enforced statewide by the commissioner of the Minnesota Department of Labor and Industry and incorporates the 2018 edition of the Uniform Plumbing Code, with amendments (Minn. R. 4714.0050). The state plumbing code is a section of the Minnesota State Building Code. The plumbing code establishes minimum requirements and applies to all new plumbing installations performed anywhere in the state, including additions, extensions, alterations, and replacements, unless an agreement exists between the commissioner and the municipality. The state may enter into agreements with local municipalities for plan approval and inspections if the municipality adopts the state plumbing code by ordinance. Governmental units may not adopt regulations that are in conflict with the code. The 14-member Minnesota State Plumbing Board, of which 12 members are appointed by the governor, has the authority to license plumbing contractors and restricted plumbing contractors, master plumbers and restricted master plumbers, and journeyworker plumbers and restricted journeyworker plumbers. Registered plumber's apprentice and registered unlicensed plumbers are allowed to assist in the installation of plumbing under the direct supervision of one of the other categories of licensed plumbers.

Summary of factual data and analytical methodologies:

This proposed rule was developed in consultation with the Plumbing Code Advisory Committee. The committee consists of seven individuals appointed by the DSPS Secretary under the authority of ss. 227.13 and 440.042 (1), Stats. The purpose of the Plumbing Code Advisory Committee is to consult with and advise the Department on plumbing standards as set forth in Wis. Admin. Code chs. SPS 381 to 387. The committee has advisory powers only.

Beginning in August 2024, the Plumbing Code Advisory Committee held several meetings to comprehensively review proposals presented by the Department's Division of Industry Services Plumbing Section, committee members, stakeholders, and the public.

Standards incorporated by reference in the proposed rule will be submitted to the Attorney General for approval pursuant to s. 227.21 (2), Stats.

Analysis and supporting documents used to determine effect on small business or in preparation of economic impact analysis:

The proposed rules will be posted for a period of 14 days to solicit public comment on economic impact, including how the proposed rules may affect businesses, local government units, and individuals.

Effect on small business:

These proposed rules do not have an economic impact on small businesses, as defined in s. 227.114 (1), Stats. The Department's Regulatory Review Coordinator may be contacted by email at Jennifer.garrett@wisconsin.gov, or by calling (608) 266-2112.

Agency contact person:

Jake Pelegrin, Administrative Rules Coordinator, Department of Safety and Professional Services, Office of Chief Legal Counsel, email at DSPSAdminRules@wisconsin.gov.

Place where comments are to be submitted and deadline for submission:

Comments may be submitted to Jake Pelegrin, Administrative Rules Coordinator, Department of Safety and Professional Services, Office of Chief Legal Counsel, 4822 Madison Yards Way, P.O. Box 14497, Madison, Wisconsin 53708-0497, or by email to DSPSAdminRules@wisconsin.gov. Comments must be received at or before the public hearing to be included in the record of rule-making proceedings.

TEXT OF RULE

SECTION 1. SPS 325.01 is repealed and recreated to read:

SPS 325.01 Plumbing Standard. All plumbing design, construction, installation, materials, and inspection used in the construction of one- and 2-family dwellings shall comply with the requirements of the Wisconsin Plumbing Code, chs. SPS 381 to 387.

SECTION 2. SPS 381.01 (8m) is created to read:

SPS 381.01 (8m) "Anti-siphon fill valve" means a valve that is used to supply water for flush tank refill and, where applicable, trap reseal. The device has an air gap, integral mechanical backflow preventer, or vacuum breaker to prevent the backflow of water from the flush tank into the supply

system. The device is operated by a float or similar activation method.

SECTION 3. SPS 381.01 (22) is repealed.

SECTION 4. SPS 381.01 (50a) is created to read:

SPS 381.01 (50a) "Campground" has the meaning given in s. ATCP 79.03 (3).

Note: Section ATCP 79.03 (3) reads: "Campground" means a parcel or tract of land owned by a person, state, or local government that is designed, maintained, intended, or used for the purpose of providing campsites offered with or without charge, for temporary overnight sleeping accommodations.

SECTION 5. SPS 381.01 (50c) and (50e) (intro.) are amended to read:

SPS 381.01 (50c) "Campground or recreational vehicle park drain system, sanitary" means ~~all piping or any portion thereof~~ a sanitary sewer, within public or private premises, ~~that conveys domestic wastewater from~~ serving a campground or recreational vehicle park.

(50e) "Campground or recreational vehicle park drain system, storm" means ~~all plumbing or any portion thereof~~ a storm sewer, within public or private premises, ~~that conveys any of the following:~~ serving a campground or recreational vehicle park.

SECTION 6. SPS 381.01 (50e) (a) and (b) and (c) are repealed.

SECTION 7. SPS 381.01 (50w) and (51m) are created to read:

SPS 381.01 (50w) "Campsite" has the meaning given in s. ATCP 79.03 (7).

Note: Section ATCP 79.03 (7) reads: "Campsite" means an area of a campground that is designated by the operator as capable of accommodating an independent or dependent camping unit. A campsite may be one or a combination of the following: (a) Individual campsite. (b) Group campsite. (c) Seasonal campsite. (d) Rustic campsite.

(51m) "Campsite water supply riser" means the vertical water supply piping and faucet that provides potable water to an individual camp site.

SECTION 8. SPS 381.01 (65m) and (80) are amended to read:

SPS 381.01 (65m) "Cross connection control assembly" means a mechanical backflow preventer used to prevent backflow into a water supply system that requires shut−off valves and a test cock or test cocks to meet any specific standard, such as a reduced pressure principle backflow ~~preventer~~ prevention assembly, a double check backflow ~~preventer~~ prevention assembly, a pressure vacuum breaker assembly, or a spill resistant vacuum breaker assembly.

(80) "Double check detector ~~fire protection~~ backflow ~~preventer−assembly~~ prevention assembly" means an assembly ~~serving a fire protection system and~~ consisting of 2 independently acting check

valves, internally forced loaded to a normally closed position, 2 tightly closing shut−off valves, and properly located test cocks which also includes a ~~parallel~~ bypass with a flow meter to indicate leakage or unauthorized use of water downstream of the assembly**.** The bypass shall be composed of a water meter and a meter-sized approved double check valve prevention assembly. The meter shall register accurately for only very low rates of flow and shall show a registration for all rates of flow.

SECTION 9. SPS 381.01 (80m) is repealed.

SECTION 10. SPS 381.01 (82), (116), and (117m) are amended to read:

SPS 381.01 (82) "Drain system" includes all the piping or any portion of the piping within public or private premises which conveys wastewater to a legal point of disposal, but does not include the mains of a public sewer ~~systems or~~ system, a private onsite wastewater treatment system, or a public sewage treatment or disposal plant.

(116) "Health care facility" means a hospital, nursing home, community-based residential facility, inpatient hospice, or ambulatory surgery center.

(117m) "Health care related facility" means an assisted living, residential care apartment complex, memory care, infirmary, inpatient mental health center, ~~inpatient hospice,~~ adult day care center, renal dialysis center, facility for the developmentally disabled, institute for mental disease, urgent care center, medical clinic or office, dental clinic or office, residential care center for children and youth, or school of medicine, surgery, or dentistry.

SECTION 11. SPS 381.01 (141) is repealed and recreated to read:

SPS 381.01 (141) "Lead-free" means:

(a) Not containing more than 0.2 percent lead when used with respect to solder and flux; and

(b) Not more than a weighted average of 0.25 percent lead when used with respect to the wetted surfaces of pipes, pipe fittings, plumbing fittings, and fixtures.

Note: Requirements for calculation of lead content may be found in s. SPS 384.30 (1m) (d).

SECTION 12. SPS 381.01 (152) is amended to read:

SPS 381.01 (152) "Manufactured home drain connector" means the ~~pipe that joins the drain piping for a~~ portion of a drain system under a manufactured home ~~to the building sewer~~ without a permanent foundation where a drain connector joins the drain piping installed by the manufacturer to the sanitary sewer.

SECTION 13. SPS 381.01 (152) (Note) is created to read:

SPS 381.01 (152) Note: Drain piping installed under a manufactured home with a permanent foundation is within or under the fully enclosed portion of a building, and is therefore a building drain under the definition in s. SPS 381.01 (39).

SECTION 14. SPS 381.01 (153e) and (153m) (intro.) are amended to read:

SPS 381.01 (153e) "Manufactured home community drain system, sanitary" means ~~all piping or any portion thereof~~ a sanitary sewer, within public or private premises, ~~which conveys domestic wastewater from a manufactured home in~~ serving a manufactured home community.

(153m) "Manufactured home community drain system, storm" means ~~all piping or any portion thereof~~ a storm sewer, within public or private premises, ~~that conveys any of the following:~~ serving a manufactured home community.

SECTION 15. SPS 381.01 (153m) (a) and (b) and (c) are repealed.

SECTION 16. SPS 381.01 (153s) is amended to read:

SPS 381.01 (153s) "Manufactured home community water supply system" means ~~the piping~~ a water supply system through which potable water is conveyed to points of connection to a manufactured home or homes in a manufactured home community.

SECTION 17. SPS 381.01 (153w), (201g), and (201r) are created to read:

SPS 381.01 (153w) "Manufactured home water connector" means the portion of a water supply system under a manufactured home and downstream of the building control valve that joins the water inlet(s) installed by the manufacturer prior to delivery to the water service or the manufactured home community water supply system.

(201g) "Recreational vehicle" has the meaning given in s. 340.01 (48r), Stats.

Note: Section 340.01 (48r), Stats., reads: "Recreational vehicle" means a vehicle that is designed to be towed upon a highway by a motor vehicle, that is equipped and used, or intended to be used, primarily for temporary or recreational human habitation, and that does not exceed 46 feet in length. "Recreational vehicle" includes a camping trailer, 5th-wheel recreational vehicle, park model recreational vehicle, as defined in s. 218.10 (7m), Stats., and travel trailer, as defined in s. 218.10 (8v), Stats.

(201r) "Recreational vehicle park" means a plot of land upon which 2 or more recreational vehicle sites are located, established or maintained for occupancy by recreational vehicles of the general public as temporary living quarters for recreation or vacation purposes.

SECTION 18. SPS 381.01 (203) is amended to read:

SPS 381.01 (203) "Reduced pressure detector ~~fire protection~~ backflow prevention assembly" means a type of reduced pressure principle type backflow ~~preventer serving a fire protection system and~~ prevention assembly which includes a ~~parallel~~ bypass with a flow meter to indicate leakage or

unauthorized use of water downstream of the assembly. The bypass shall be composed of a water meter and a meter-sized approved reduced pressure principle backflow prevention assembly. The meter shall register accurately for only very low rates and shall show a registration for all rates of flow.

SECTION 19. SPS 381.01 (203m) is repealed.

SECTION 20. SPS 381.01 (204), (231m), and (284) are amended to read:

SPS 381.01 (204) "Reduced pressure principle backflow ~~preventer~~ prevention assembly" means a cross connection control assembly consisting of 2 independently−acting check valves, internally force−loaded to a normally closed position and separated by an intermediate chamber or zone in which there is a hydraulically operated relief means for venting to atmosphere, internally force−loaded to a normally open position. These assemblies are designed to operate under continuous pressure conditions. The assembly shall include 2 properly located, tightly closing shut−off valves and properly located test cocks.

(231m) "Spill resistant vacuum breaker assembly" means a cross connection control assembly consisting of one check valve force−loaded closed and an air inlet force loaded open to atmosphere located downstream of the check valve. The assembly also includes 2 tightly closing shut−off valves and 2 test cocks or a no. 1 test cock and a bleed valve.

(284) "Water supply system" means the piping of a private water main, water service, ~~and~~ water distribution system, manufactured home community water supply system, and campground or recreational vehicle park water supply system, fixture supply connectors, fittings, valves, and appurtenances through which water is conveyed to points of usage such as plumbing fixtures, plumbing appliances, water using equipment or other piping systems to be served.

SECTION 21. SPS Table 381.20-3a is created to read:

Table 381.20-3a

ISEA	**International Safety Equipment Association 1101 Wilson Blvd, Suite #1425 Arlington, VA, 22209-1762 Phone: 703-525-1695 Website: www.safetyequipment.org**
Standard Reference Number	**Title**
1. ANSI/ISEA Z358.1-2014 (R2020)	American National Standard for Emergency Eyewash and Shower Equipment

SECTION 22. SPS Table 381.20-3e, Table 381.20-4, Table 381.20-5, Table 381.20-12, and Table 381.20-13 are amended to read:

Table 381.20-3e (Partial)

ASME	**American Society of Mechanical Engineers** **Two Park Avenue** **New York, New York 10016-5990** **Phone: 800-843-2763** **Website: www.asme.org**

Standard Reference Number	Title
~~22. A112.19.4M-1994 (R2009)~~	~~Porcelain Enameled Formed Steel Plumbing Fixtures~~
37m. B16.28-1994	Wrought Steel Buttwelding Short Radius Elbows and Returns

Table 381.20-4 (Complete Table)

ASSE/IAMPO	American Society of Sanitary Engineering 18927 Hickory Creek Drive, Suite 220 Mokena, Illinois 60448 Phone: 708-995-3019 Website: www.asse-plumbing.org

Standard Reference Number		Title
1.	1001-2021	Atmospheric Type Vacuum Breakers
2.	ASSE 1002-2020/ASME A112.1002-2020/CSA B125.12.20	~~Anti-siphon~~ Anti-Siphon Fill Valves for Water Closet Tanks
3.	1003-2020 e1	Water Pressure Reducing Valves for Potable Water Distribution Systems
4.	1004-2017	Backflow Prevention Requirements for Commercial Dishwashing Machines
~~5~~	~~1006-1989~~	~~Residential Use (Household) Dishwashers~~
~~6~~	~~1007-1992~~	~~Home Laundry Equipment~~
7.	1008-2020	Plumbing Aspects of Residential Food Waste Disposer Units
~~8~~	~~1009-1990~~	~~Commercial Food Waste Grinder Units~~
9.	1010-2004	Water Hammer Arresters
10.	1011-2017	Hose Connection Vacuum Breakers
11.	1012-2021	Backflow ~~Preventer~~ Preventers with an Intermediate Atmospheric Vent
12.	1013-2021	Reduced Pressure Principle Backflow ~~Preventers and Reduced Pressure Principle Fire Protection Backflow Preventers~~ Prevention Assemblies
13.	1014-2020	Backflow Prevention Devices for ~~Hand-Held~~ Hand-held Showers
14.	1015-2021	Double Check Backflow Prevention Assemblies ~~and~~

		~~Double Check Fire Protection Backflow Prevention Assemblies~~
15.	ASSE 1016-2017/ASME A112.1016-2017/CSA B125.16-17	Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations
16.	1017-2009	Temperature Actuated Mixing Valves for Hot Water Distribution Systems
17.	1018-2001 (R2021)	Trap Seal Primer Valves - Potable Water Supplied
18.	1019-2011 (R2016)	Wall Hydrant with Backflow Protection and Freeze Resistance
19.	1020-2020 e1	Pressure Vacuum Breaker ~~Assembly~~ Assemblies
20.	1022-2021	Backflow Preventer for Beverage Dispensing Equipment
21.	1023-2020	~~Hot Water Dispensers, Household Storage Type, Electrical~~ Electrically Heated or Cooled Water Dispensers
22.	1024-2017 (R2021)	Dual Check Backflow Preventers
23.	1032-2004 (R2021)	Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers, Post-Mix Type
24.	1035-2020	Laboratory Faucet Backflow Preventers
25.	1037-2015/ASME A112.1037-2015/CSA B125.37-15 (R2020)	Pressurized Flushing Devices for Plumbing Fixtures
26.	1044-2015	Trap Seal Primer – Drainage Types and Electric Design Types
27.	1047-2021	Reduced Pressure Detector ~~Fire Protection~~ Backflow Prevention Assemblies~~, Performance Requirements for~~
28.	1048-2021	Double Check Detector ~~Fire Protection~~ Backflow Prevention Assemblies~~, Performance Requirements for~~
29.	1050-2021	Stack Air Admittance Valves for Sanitary Drainage ~~Systems~~
30.	1051-2021	Individual and Branch Type Air Admittance Valves for Sanitary Drainage Systems
31.	1052-2016	Hose Connection Backflow Preventers~~, Performance Requirements for~~
32.	1053-2019	Dual Check Backflow Preventer Wall Hydrants - Freeze Resistant Type~~, Performance Requirements for~~
33.	ANSI/CAN/ ASSE/ IAPMO 1055-2020	Chemical ~~Dispensing Systems~~ Dispensers with Integral Backflow Protection~~, Performance Requirements for~~

34.	1056-2013 (R2021)	Spill Resistant Vacuum Breaker Assemblies~~, Performance Requirements for~~
35.	1057-2012	Freeze Resistant Sanitary Yard Hydrants with Backflow Protection~~, Performance Requirements for~~
36.	1061-2020	~~Performance Requirements for~~ Push-Fit Fittings
37.	1066-1997	Individual Pressure Balancing In-Line Valves for Individual Fixture Fittings
37g.	1069-2020 (R2025)	Automatic Temperature Control Mixing Valves
37r.	ASSE 1070/ASME A112.1070/ CSA B125.70-2020	Water Temperature Limiting Devices
38.	1072-2020	~~Performance Requirements for~~ Barrier Type Trap Seal Protection for Floor Drains
39.	1079-2012 (R2021)	~~Performance Requirements for~~ Dielectric Pipe Unions
40.	1081-2014 (R2020)	~~Performance Requirements for~~ Backflow Preventers with Integral Pressure Reducing Boiler Feed Valve and Intermediate Atmospheric Vent Style for Domestic and Light Commercial Water Distribution Systems
41.	ASSE/IAPMO/ANSI SERIES 5000-2022e1	Cross Connection Control Professional Qualifications
42.	IAPMO/ANSI Z1001-2016	~~(Prefabricated~~ Prefabricated Gravity Grease ~~Interceptors)~~ Interceptors

Table 381.20-5 (Partial)

	ASTM	**ASTM International 100 Barr Harbor Drive West Conshohocken, Pennsylvania 19428-2959 Phone: (610) 832-9500 Website: www.astm.org**
	Standard Reference Number	**Title**
48.	~~C1478-20~~ C1478/C1478M-20	Standard Specification for Storm Drain Resilient Connectors Between Reinforced Concrete Storm Sewer Structures, Pipes and Laterals
76m.	D3139-19	Standard Specification for Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals

153.	F3430-25	Standard Specification for Closed-Cell Cellular Polypropylene (PP) Corrugated Wall Stormwater Collection Chambers

Table 381.20-12 (Partial)

STI/SPFA **Steel Tank Institute/Steel Plate Fabricators Association**
944 Donata Court
Lake Zurich, Illinois 60047
Phone: 847-438-8265
Website: www.steeltank.com

Standard Reference Number	Title
~~STI-P STI/SPFA~~ STI-P3-2018	External Corrosion Protection of Underground Steel Storage Tanks, Specifications and Manual for

Table 381.20-13 (Partial)

UL **Underwriters Laboratories Inc.**
333 Pfingsten Road
Northbrook, Illinois 60062
Phone: 847-272-8800
Website: www.ul.com

Standard Reference Number		Title
2m.	Standard 499-2025	Standard for Electric Heating Appliances

SECTION 23. SPS 382.20 (1) (c), Table 382.20-1, (4) (d) 1. a., and (13) (e) are amended to read:

SPS 382.20 (1) (c) *Cross connection control assembly registration*. The installation of each reduced pressure principle backflow ~~preventer~~ prevention assembly, reduced pressure detector backflow prevention assembly, spill resistant vacuum breaker assembly, double check backflow prevention assembly, double check detector backflow prevention assembly, or pressure vacuum breaker assembly shall be registered with the department no later than 7 days after installation of the assembly. Assemblies serving automatic fire sprinkler systems are not required to be registered with the department.

Table 382.20-1 (Partial)
Submittals to Department

Types of Plumbing Installation

5. Reduced pressure principle backflow ~~preventers~~ prevention assemblies, reduced pressure detector backflow prevention assemblies, double check backflow prevention assemblies, double check detector backflow prevention assemblies, pressure vacuum breaker assemblies, and spill resistant vacuum ~~breakers~~ breaker assemblies serving health care facilities. Assemblies serving automatic fire sprinkler systems are not required to be registered with the department.

(4) (d) 1. a. At least ~~2 sets~~ one set of plans signed in accordance with par. ~~(d)~~ (c) and detailing the system installation for each site.

(13) (e) Upon permanent removal or replacement of any reduced pressure principle backflow ~~preventer~~ prevention assembly, reduced pressure detector backflow prevention assembly, double check backflow prevention assembly, double check detector backflow prevention assembly, spill resistant vacuum breaker assembly or pressure vacuum breaker assembly, the owner shall notify the department in writing using a format acceptable to the department. Removal or replacement of an assembly serving an automatic fire sprinkler system that is not registered with the department is not required to be reported to the department.

SECTION 24. SPS 382.22 (2) (b) is amended to read:

SPS 382.22 (2) (b) When a hazard to life, health or property exists or is created by an existing system, the system shall be repaired or replaced. Alternatively, the authority having jurisdiction may require that the system ~~shall be repaired or replaced~~ be brought into compliance with the current code's requirements within a time period determined by the authority.

SECTION 25. SPS Table 382.22-1 is repealed and recreated to read:

Table 382.22-1
Testing and Submitting Requirements for Cross Connection Control Assemblies

ASSE Standard Name and Number	CAN/CSA Standard Name and Number	ASSE Test Standard Number and Test Required	Test Results to be Submitted to Department (For non-fire suppression system applications)	Test Results to be Submitted to Department (For fire suppression system applications)
Double Check Backflow Prevention	Double Check Valve Backflow Preventers	5015	Yes	No

Assemblies ASSE 1015	CAN/CSA B64.5			
Double Check Detector Backflow Prevention Assemblies ASSE 1048	Not Applicable	5048	Yes	No
Pressure Vacuum Breaker Assemblies ASSE 1020	Pressure Vacuum Breakers CAN/CSA B64.1.2	5020	Yes	Not Applicable
Reduced Pressure Principle Backflow Prevention Assemblies ASSE 1013	Reduced Pressure Principle Backflow Preventers CAN/CSA B64.4	5013	Yes	No
Reduced Pressure Detector Backflow Prevention Assemblies ASSE 1047	Not Applicable	5047	Yes	No
Spill Resistant Vacuum Breaker Assemblies ASSE 1056	Spill Resistant Vacuum Breakers CAN/CSA B64.1.3	5056	Yes	Not Applicable

SECTION 26. SPS 382.30 (5) (d) and (e) are created to read:

SPS 382.30 (5) (d) *Campground or recreational vehicle park drain system.* The minimum pitch of piping within a campground or recreational vehicle park drain system shall be in accordance with Table 382.30−3.

(e) *Manufactured home community drain system.* The minimum pitch of piping within a

manufactured home community drain system shall be in accordance with Table 382.30−3.

SECTION 27. SPS 382.30 (10) (c) (intro.) is amended to read:

SPS 382.30 (10) (c) *Prefabricated pump and sump systems.* Macerating toilet systems and waste pumping systems for plumbing fixtures shall conform to ASME ~~A112.3.4-2018/CSA B45.9-18~~ A112.3.4/CSA B45.9. If unspecified by the manufacturer, the minimum capacity of a pump and sump system shall be determined in accordance with all of the following:

SECTION 28. SPS 382.30 (11) (e) 6. is created to read:

SPS 382.30 (11) (e) 6. Polyethylene piping for pressurized building sewers or pressurized private interceptor main sewers 3 inches or larger conforming to ASTM F714 may be installed through directional drilling adhering to ASTM F1962.

Note: Directional drilling under navigable waters shall be in accordance with the department of natural resources under ch. 30, Stats.

SECTION 29. SPS 382.30 (14) (a) 1. is amended to read:

SPS 382.30 (14) (a) 1. Conform to CSA ~~b45.13:19/IAPMO z1700-2019~~ B45.13/IAPMO Z1700.

SECTION 30. SPS 382.30 (15) is created to read:

SPS 382.30 (15) Elevator threshold drains. Elevator emergency threshold drains provided to meet the requirements of International Building Code s. 3007.3 or 3008.3, as adopted and modified by chs. SPS 361 to 366, may be used only to minimize infiltration of water from fire sprinklers into elevator hoistways. Such drains may not receive other water including wastewater. Elevator threshold drains shall comply with all of the following:

(a) In lieu of individual traps, a single trap may serve multiple threshold drains on a single floor serving a single hoistway.

Note: Per SPS 318.1004 (12s), "Hoistway" means a shaft or opening through a building or structure for the travel of elevators, dumbwaiters, or material lifts, extending from the pit floor to a ceiling above.

(b) Where multiple elevator threshold drains are served by one trap, an untrapped threshold drain may serve the cleanout requirements under s. SPS 382.35 (3) (a) and is exempt from s. SPS 382.35 (3) (g).

(c) Discharge shall be as specified in Table 382.38-1, line 4m.

(d) A drain stack serving only threshold drains serving elevator door areas may utilize a combination drain and vent system under s. SPS 382.31 (17) (d).

(e) Elevator threshold drains are exempt from safing requirements under s. SPS 384.20 (4) (b) 9.

(f) The elevator threshold drain stack utilizing a combination drain and vent as permitted by s. SPS 382.31 (17) (d) may not be combined with other plumbing prior to discharging to the building drain or other discharge points.

(g) Elevator threshold drain traps shall comply with s. SPS 382.32 (3) (c) 1.

(h) The drain stack shall be sized to accommodate the anticipated design discharge loads of the automatic fire sprinkler system.

Note: See ch. SPS 382 Appendix for further explanatory material.

SECTION 31. SPS 382.31 (17m) (intro.) and (f) are amended to read:

SPS 382.31 (17m) AIR ADMITTANCE VALVES. The use of air admittance valves ~~in lieu of traditional venting~~ shall comply with all of the following:

(f) AAVs shall be tested. The AAV shall be tested prior to or after installation. The AAV shall be subjected to a pressure equal to 1 inch of water column. After observing for 1 minute, if the pressure falls ~~.5~~ 0.5 of an inch or less, it will be considered a passing AAV.

SECTION 32. SPS 382.32 (3) (a) (intro.), 1. and 2. (intro.), and a. and b. are amended to read:

SPS 382.32 (3) (a) *Trap exceptions.* The plumbing fixtures listed in subds. 1. to ~~3.~~ 5. shall not be required to be separately trapped:

1. Fixtures having integral traps~~;~~.

2. Compartments of a combination plumbing fixture installed on one trap, provided all of the following apply:

a. No compartment is more than 6" deeper than any other~~;~~.

b. The distance between the compartments' waste outlets farthest apart does not exceed 30"~~; and~~.

SECTION 33. SPS 382.32 (3) (a) 3. (Note) is repealed.

SECTION 34. SPS 382.32 (3) (a) 4. and 5. are created to read:

SPS 382.32 (3) (a) 4. A floor drain within a garage attached to a one- or 2-family dwelling that discharges to the ground surface.

5. Local waste piping within a one- or 2-family dwelling having a length of up to 20 feet.

SECTION 35. SPS 382.32 (4) (b) 1., a. and b. and d. are amended to read:

SPS 382.32 (4) (b) 1. `Vertical distance.' Except as provided in subd. 1. a. to ~~c.~~ d., the vertical distance between the top of the fixture drain outlet and the ~~horizontal center line of the~~ trap ~~outlet~~

~~shall~~ weir may not exceed ~~15"~~ 24 inches.

a. The vertical distance between the top of the strainer of a floor drain or the opening of a standpipe receptor and the ~~horizontal center line of the~~ trap ~~outlet~~ weir ~~shall~~ may not exceed 36~~"~~ inches.

b. The vertical distance between the top of the fixture drain outlet of a pedestal fixture or a cuspidor and the ~~horizontal center line of the~~ trap ~~outlet~~ weir ~~shall~~ may not exceed 60~~"~~ inches.

d. The vertical distance ~~from~~ between the top of the ~~inlet to the horizontal centerline of the fixture drain~~ opening for a campsite receptor, exterior storm drain inlet, or a receptor for a sanitary dump station to the trap weir may exceed 3 feet ~~so as~~ to permit the trap to be installed below the predicted depth of frost.

SECTION 36. SPS 382.32 (4) (b) 1. e. is repealed.

SECTION 37. SPS 382.33 (5) (b) (Note) is amended to read:

SPS 382.33 (5) (b) Note: ~~Residential~~ One- or 2-family dwelling exclusion see s. SPS ~~325.01 (3)~~ 382.32 (3) (a) 5.

SECTION 38. SPS 382.33 (7) (a) 3. and (9) (fm) are repealed.

SECTION 39. SPS 382.33 (9) (g) 1. is amended to read:

SPS 382.33 (9) (g) 1. `Bar and soda fountain sinks.' A bar sink, whether installed for hand washing or other use, or a soda fountain sink may discharge ~~to the sanitary drain system~~ through indirect waste piping. Bar and soda fountain sinks shall discharge to the sanitary drain system.

SECTION 40. SPS 382.34 (4) (c) (Note) is repealed.

SECTION 41. SPS 382.34 (5) (d) 4. is amended to read:

SPS 382.34 (5) (d) 4. 'Flow controls.' Where required by the manufacturer, devices which control the rate of flow through an interior grease ~~intercept~~ interceptor shall be installed.

SECTION 42. SPS 382.34 (15) (g) is repealed.

SECTION 43. SPS 382.35 (3) (k) is amended to read:

SPS 382.35 (3) (k) *Conductors.* Where a cleanout is provided in a conductor, the cleanout shall be located ~~28 to~~ not more than ~~60"~~ 60 inches above the lowest floor penetrated by the conductor.

SECTION 44. SPS Table 382.36-1 (Title) is amended to read:

SPS Table 382.36-1
Maximum Capacity of Stormwater Conveyance Piping for
PVC, ASTM D1785, D2665, F891 and ABS, ASTM ~~D1527,~~ D2661, F628

SECTION 45. SPS Table 382.36-3 is amended to read:

Table 382.36-3 (Partial)
Maximum Capacity of Stormwater Conveyance Piping for Cast Iron, ASTM A74 and ASTM A888

Nominal Pipe Size (in inches)	Maximum Capacities in Gallons Per Minute (gpm)					
	Pitch of Piping Per Foot					
	1/32 inch (0.16% slope)	1/16 inch (0.52% slope)	1/8 inch (1.04% slope)	1/4 inch (2.08% slope)	1/2 inch (2.08% slope)	Vertical
2	N/A	~~N/A~~ 10	~~N/A~~ 14	~~N/A~~ 20	~~N/A~~ 28	26[a]

SECTION 46. SPS 382.36 (7) (d) 1m., (e), and (8) (b) 3. are amended to read:

SPS 382.36 (7) (d) 1m. If ~~in direct connection~~ connecting indirectly and at finished grade, a removable strainer shall protect the inlet. The capacity of the strainer shall be provided in accordance with sub. (9) (b).

(e) *Hydrodynamic stormwater separators.* Hydrodynamic stormwater separators shall conform to ASTM ~~F1745/F1745m~~ C1745/C1745M.

(8) (b) 3. `Clearwater discharge.' Clearwater may not discharge into a stormwater sump, except for one- and 2-family dwellings and sumps located in elevator hoistways.

SECTION 47. SPS 382.36 (8) (b) 3. (Note) is created to read:

SPS 382.36 (8) (b) 3. Note: All drains located in elevator hoistways must comply with the requirements of s. SPS 382.33 (9) (f).

SECTION 48. SPS 382.37 (Title), (3) (Title), (a) (intro.), and 3. and 6. are amended to read:

SPS 382.37 Sanitation facilities, ~~and~~ campgrounds, and recreational vehicle parks.

(3) CAMPGROUNDS AND RECREATIONAL VEHICLE PARKS.

(a) ~~*Drain*~~ *Sanitary drain systems.* ~~Sewers~~ Sanitary sewers serving campgrounds and recreational vehicle parks shall comply with the provisions applicable to building sewers in s. SPS 382.30 and all of the following:

3. Where 2 or more drain lines are designed to discharge into the same campsite receptor, an increaser shall be installed in the vertical portion of the ~~trap riser~~ standpipe to accommodate the drains.

6. A vent is not required to serve the trap ~~serving~~ of a campsite receptor.

SECTION 49. SPS 382.37 (3) (a) 8. to 11. are created to read:

SPS 382.37 (3) (a) 8. The sanitary drain system shall be constructed of materials suitable for sanitary building sewer pipe, as specified in s. SPS 384.30 (2) (c).

9. Cleanouts shall be provided to comply with s. SPS 382.35, suitable for sanitary building sewers. Additionally, a cleanout shall be provided upstream of the point where more than one campsite receptor is served by a single drain.

10. A means to locate buried non−metallic campground or recreational vehicle park drain systems, sanitary, that discharge to municipal mains shall be provided in accordance with the options under s. SPS 382.30 (11) (h).

11. Testing and inspection shall be conducted to comply with s. SPS 382.21, suitable for sanitary building sewer and sanitary private interceptor main sewer.

SECTION 50. SPS 382.37 (3) (b) 1. is amended to read:

SPS 382.37 (3) (b) 1. An accessible control valve shall be installed at the most upstream point of the campground or recreational vehicle park water supply ~~distribution~~ system and downstream of the municipal meter or pressure tank.

SECTION 51. SPS 382.37 (3) (b) 7. and 8. and 9. are created to read:

SPS 382.37 (3) (b) 7. Testing and inspection shall be conducted to comply with s. SPS 382.21, suitable for private water mains and water services.

8. A means to locate buried non−metallic campground or recreational vehicle park water supply system connected to municipal supply systems shall be provided in accordance with s. SPS 382.40 (8) (k).

9. The water supply system shall be designed for periodic flushing at a minimum velocity of 3 feet per second per ANSI/AWWA Standard C651, Table 3.

SECTION 52. SPS 382.40 (3) (b) 1. c. is created to read:

SPS 382.40 (3) (b) 1. c. Tempered water supplied to serve individual lavatories, wash fountains and shower heads shall be provided by means of temperature-actuated mixing valves installed at the point of use that comply with ASSE 1070.

SECTION 53. SPS 382.40 (3) (b) (intro.), (c) 4. and (d) 4. are amended to read:

SPS 382.40 (3) (b) *Hot water required.* Except as provided in subds. 1. ~~and 2.~~ to 3., hot water shall be provided to all plumbing fixtures, appliances, and equipment used for personal washing, culinary purposes, or laundering, and sinks used for building maintenance in a public building.

(c) 4. As used in this section, "closed water system" means a system provided with a check valve, backflow preventer, or other normally closed device that prevents dissipation of building pressure back into the water supply system. The water supply system shall be protected from thermal expansion when a closed water system is created. Any water heater, except for an instantaneous non-storage water heater, serving a closed water system shall be provided with an expansion tank or other approved device having a similar function to control thermal expansion.

(d) 4. The installation of each reduced pressure principle backflow ~~preventer~~ prevention assembly, reduced pressure detector backflow prevention assembly, double check backflow prevention assembly, double check detector backflow prevention assembly, spill resistant vacuum breaker assembly and pressure vacuum breaker assembly shall display a department assigned identification number. Assemblies serving automatic fire sprinkler systems are not required to be registered with the department or display a department assigned identification number.

SECTION 54. SPS 382.40 (3) (f) is created to read:

SPS 382.40 (3) (f) *Check valve required.* All systems that circulate water by means of a pump or other mechanical device or method shall have a check valve or equal device installed so as to ensure the direction of flow.

SECTION 55. SPS 382.40 (4) (c) 1. d. and (5) (a) are amended to read:

SPS 382.40 (4) (c) 1. d. The water distribution system for buildings with more than 4 dwelling units or living units shall be provided with control valves in such numbers and at such locations so that the water supplied to all the units within the building can be isolated into groups of 4 ~~of~~ or less units.

(5) (a) *General.* Water heating systems shall be sized to provide sufficient hot water to supply peak demand~~, except for a tankless type water heater that meets the requirements of par. (am)~~.

SECTION 56. SPS 382.40 (5) (am) is repealed.

SECTION 57. SPS 382.40 (6) (a), (c) 1. to 3., 4. a., (7), and (Note 1) are amended to read:

SPS 382.40 (6) (a) *Intermittent flow fixtures.* The load factor for intermittent flow fixtures on water supply piping shall be computed in terms of water supply fixture units as specified in Tables ~~382.40-1t~~ 382.40-1b and 382.40-2 for the corresponding fixture and use. Water supply fixture units may be converted to gallons per minute in accordance with Table 382.40-3 or 382.40-3e.

(c) 1. The minimum flow rate of a water heater may be obtained by multiplying 0.65 by the calculated hot water gallons per minute demand ~~calculated in accordance with~~ as determined by ~~Table~~ Tables 382.40-1b ~~by a factor of 0.65~~ and 382.40-3.

2. The flow rate for a storage tank type water heater may be calculated based on a 70% usable storage plus the recovery rate and a ~~10~~ 10-minute minimum draw time.

3. The flow rate for ~~tankless type~~ instantaneous water heaters shall be based on a temperature increase that will provide 110°F at the ~~most remote terminus~~ terminal fixture or faucet.

4. a. Water heaters serving high flow fixtures, hose ~~bibs~~ bibbs, hydrants or fixtures requiring 1/2 inch or larger supply piping. High flow fixtures are fixtures with flow rates greater than 4 gpm at 80 psig and a water velocity less than or equal to 8 feet per second.

(7) SIZING OF THE WATER SUPPLY PIPING. The sizing of the water supply system shall be based on the empirical method and limitations outlined in this subsection, an approved alternate standard per s. SPS 381.20 (2), or an analysis provided by a Wisconsin master plumber, registered architect, registered professional engineer or permitted designer of engineering systems – plumbing.

Note 1: See ~~appendix~~ public lookup, https://esla.wi.gov/publiclookup for details for alternative methods for sizing of the water supply piping ~~of one- and 2-family and apartment buildings~~.

SECTION 58. SPS 382.40 (7) (Note 2) and (Note 3) are created to read:

SPS 382.40 (7) Note 2: An approved alternate standard (e. g. International Association of Plumbing and Mechanical Officials Peak Water Demand Calculator) may be utilized separately or in combination with the empirical method, so long as it conforms to good engineering practice standards and product manufacturers specifications.

Note 3: A system based on an analysis provided by a Wisconsin master plumber, registered architect, registered professional engineer, or permitted designer of engineering system-plumbing is an example of an engineered system as defined in s. SPS 381.01 (89). Pursuant to Table SPS 382.20-1, engineered systems may only be evaluated by the department.

SECTION 59. SPS 382.40 (7) (c) and (e) and (g) are amended to read:

SPS 382.40 (7) (c) *Maximum loading.* The calculated load on any portion of the water distribution system may not exceed the limits specified in Tables 382.40-4 to ~~382.40-9~~ 382.40-15.

(e) *Maximum velocity.* A water distribution system shall be designed so that the flow velocity does not exceed 8 feet per second except for a ~~combination sprinkler distribution~~ multipurpose piping system as designed in sub. (3) (e).

(g) *Minimum sizes for fixture supplies.* Except as provided in subds. 1. to ~~3.~~ 4., the fixture supplies serving all plumbing fixtures, appliances and pieces of equipment shall be at least 1/2" in diameter.

SECTION 60. SPS 382.40 (7) (g) 4. is repealed and recreated to read:

SPS 382.40 (7) (g) 4. Fixture supplies with a maximum load factor of 0.5 water supply fixture units and a developed length of 25 feet or less shall have a minimum 1/4 inch diameter.

SECTION 61. SPS 382.40 (8) (b) 10. is amended to read:

SPS 382.40 (8) (b) 10. Private water mains shall be ~~provided with provisions for flushing of the system at a minimum of 10 feet per second until clear~~ designed for periodic flushing at a minimum velocity of 3 feet per second per ANSI/AWWA Standard C651, Table 3.

SECTION 62. SPS 382.40 (8) (b) 10. (Note) is repealed.

SECTION 63. SPS 382.40 (8) (b) 11. is created to read:

SPS 382.40 (8) (b) 11. Water service or private water main polyethylene piping conforming to ASTM D3035 may be installed through directional drilling adhering to ASTM F1962.

Note: Directional drilling under navigable waters shall be in accordance with the department of natural resources under ch. 30, Stats.

SECTION 64. SPS 382.40 (8) (d) 3. b. and (i) 3. (Note) are repealed.

SECTION 65. SPS 382.40 (8) (L) is created to read:

SPS 382.40 (8) (L) *Vacuum relief.* A vacuum relief valve shall be installed in each water treatment appliance which, when measured from the bottom of the appliance, is located more than 20 feet above any faucet or outlet served by the appliance. Relief valves shall conform to ANSI Z21.22/CSA 4.4.

SECTION 66. SPS 382.41 (3) (a) 1., (b) 3. a., and 6. b. are amended to read:

SPS 382.41 (3) (a) 1. Water supply systems shall be protected against contamination due to cross connections or backflow conditions by one of the methods, ~~or~~ devices, or assemblies specified in Table 382.41-1 depending upon the situation ~~or Table 382.41-2 depending upon the specific application or use,~~ and the limitations specified in sub. (4).

(b) 3. a. ~~Any~~ Except as provided in subd. 8., any part of the drain system; and

6. b. Cross connection control ~~devices~~ assemblies used in conjunction with automatic fire sprinkler systems shall be listed by an acceptable testing agency for such an application under the standards governing the design and installation of automatic fire sprinkler systems.

SECTION 67. SPS 382.41 (3) (b) 8. is created to read:

SPS 382.41 (3) (b) 8. A cross connection situation shall not be considered to exist for an emergency fixture unless the outlet can be submerged in a plumbing fixture. A low hazard cross connection situation shall be considered to exist when the outlet of an emergency fixture can be submerged.

SECTION 68. SPS 382.41 (3) (c) 1. (intro.) and 2. and 3. are amended to read:

SPS 382.41 (3) (c) 1. For sewerage treatment facilities which are required to conform with ch. NR 110, in addition to the cross connection control required for each potable water usage or water outlet, a reduced pressure principle backflow ~~preventer~~ prevention assembly or a reduced pressure detector backflow prevention assembly shall be installed:

2. For marinas, wharves and docks where potable water outlets are provided to serve boats or ships, in addition to the cross connection control required for each potable water outlet or usage, a reduced

pressure principle backflow ~~preventer~~ prevention assembly or a reduced pressure detector backflow prevention assembly shall be installed in the water supply system to limit backflow into the water supply source.

3. The installation of a cross connection control ~~device~~ assembly in the water supply system for a building or structure shall not alleviate the requirement to provide cross connection control for the connection of each plumbing fixture, piece of equipment, appliance or other piping system.

SECTION 69. SPS 382.41 (3) (d) 1. (Note) is created to read:

SPS 382.41 (3) (d) 1. Note: A single wall heat transfer fluid adhering to Category Code HT-1 under the NSF Nonfood Compounds Registration program and 21 CFR part 178.3570 is classified as a non-toxic solution. The NSF Nonfood Compounds Registration Program is a continuation of the USDA product approval and listing program, which is based on meeting regulatory requirements including 21 CFR part 178.3570 for appropriate use, ingredient, and labeling: https://info.nsf.org/usda/psnclistings.asp.

SECTION 70. SPS Table 382.41-1 is repealed and recreated to read:

Table 382.41-1

Methods, Device, or Assemblies of Cross Connection Control (Standard)	Situations and Conditions[c]							
	Backpressure				Back Siphonage			
	Low Hazard		**High Hazard**		**Low Hazard**		**High Hazard**	
	Continuous Pressure	Non-continuous Pressure	Continuous Pressure	Non-continuous Pressure	Continuous Pressure	Non-continuous Pressure	Continuous Pressure	Non-continuous Pressure
Air Gaps (ASME A112.1.2)	X	X	X	X	X	X	X	X
Air Gap Fittings (ASME A112.1.3)	X	X	X	X	X	X	X	X
Atmospheric Type Vacuum Breakers (ASSE 1001 or CSA B64.1.1)						X		X
Hose Connection Vacuum Breakers (ASSE 1011 or CSA B64.2)	X[a, b]	X[b]	X[a, b]	X[b]	X[a]	X	X[a]	X
Hose Connection Vacuum Breakers with Manual Draining Features (CSA B64.2.1)	X[a, b]	X[b]	X[a, b]	X[b]	X[a]	X	X[a]	X
Hose Connection Vacuum Breakers with Automatic Draining Features (CSA B64.2.2)	X[a, b]	X[b]	X[a, b]	X[b]	X[a]	X	X[a]	X
Backflow Preventers with an Intermediate Atmospheric Vent (ASSE 1012 or CSA B64.3)	X	X			X	X		
Reduced Pressure Principle Backflow Prevention Assemblies (ASSE 1013 or CSA B64.4)	X	X	X	X	X	X	X	X
Reduced Pressure Principle Backflow Preventers for Fire Protection Systems (CSA B64.4.1)	X	X	X	X	X	X	X	X
Double Check Backflow Prevention Assemblies (ASSE 1015 or CSA	X	X			X	X		

B64.5)								
Double Check Valve Backflow Preventers for Fire Protection Systems (CSA B64.5.1)	X	X			X	X		
Pressure Vacuum Breaker Assemblies (ASSE 1020 or CSA B64.1.2)					X	X	X	X
Dual Check Backflow Preventers (ASSE 1024 or CSA B64.6)	X	X			X	X		
Reduced Pressure Detector Backflow Prevention Assemblies (ASSE 1047)	X	X	X	X	X	X	X	X
Double Check Detector Backflow Prevention Assemblies (ASSE 1048)	X	X			X	X		
Hose Connection Backflow Preventers (ASSE 1052 or CSA B64.2.1.1)	X[a, b]	X[b]	X[a, b]	X[b]	X[a]	X	X[a]	X
Spill Resistant Vacuum Breaker Assemblies (ASSE 1056 or CSA B64.1.3)					X	X	X	X
Barometric loop					X	X	X	X
Vacuum breaker tee					X	X	X	X

a. Limited to campgrounds and marinas.
b. Maximum of 10 feet (3.0 meters) of backpressure.
c. Refer to SPS 384 for application specific methods, devices, and assemblies.

SECTION 71. SPS 382.41 (4) (a) and (d) (intro.), (e) 1. to 3., (g) 1. and 3., (i) and (k) (intro.), 2m., (m) and (n) (intro.), and 2. are amended to read:

SPS 382.41 (4) (a) Cross connection control devices or assemblies shall be limited in use in accordance with the respective standard, unless otherwise specifically permitted under this subsection.

(d) A backflow preventer with an intermediate atmospheric vent:

(e) 1. A reduced pressure principle backflow ~~preventer~~ prevention assembly and a reduced pressure detector backflow ~~preventer~~ prevention assembly may not be subjected to a backpressure greater than twice the rated working pressure of the ~~device~~ assembly.

2. A reduced pressure principle backflow ~~preventer~~ prevention assembly and a reduced pressure detector backflow ~~preventer~~ prevention assembly which serve a water-based fire protection system may have a test outlet located between the number 2 check valve and the number 2 listed indicating control valve.

3. A reduced pressure principle backflow ~~preventer~~ prevention assembly and a reduced pressure detector backflow ~~preventer~~ prevention assembly which are 2" or smaller in size and which serve a water-based fire protection system are not required to have a test cock on the number one listed indicating control valve.

(g) 1. A double check backflow prevention assembly and a double check detector ~~assembly~~ backflow ~~preventer~~ prevention assembly may not be subjected to a backpressure greater than twice the rated working pressure of the ~~device~~ assembly**.**

3. A double check backflow prevention assembly and a double check detector ~~assembly~~ backflow ~~preventer~~ prevention assembly which are 2" or smaller in size and which serve a water-based fire protection system are not required to have a test cock on the number one listed indicating control valve.

(i) A vacuum breaker wall hydrant, freeze resistant automatic draining type, a dual check backflow preventer wall hydrant-freeze resistant type, or a freeze resistant sanitary yard hydrant, may not be employed in backpressure situations of more than 10 feet of water column.

(k) A pressure ~~type~~ vacuum breaker assembly shall be installed such that the bottom of the ~~device~~ assembly or the critical level mark on the ~~device~~ assembly is at least 12" above all of the following:

2m. The highest point downstream from the ~~device~~ assembly where backpressure would be created.

(m) The cross connection control device or assembly to serve a hose bibb or hydrant that penetrates an exterior wall of a heated structure may not prevent a hose bibb or hydrant from being freeze resistant automatic draining as required under s. SPS 382.40 (8) (a).

(n) A spill resistant vacuum breaker assembly shall be installed so that the bottom of the ~~device~~ assembly or the critical level mark on the ~~device~~ assembly is at least 12” above all of the following:

2. The highest point downstream from the ~~device~~ assembly where back pressure would be created.

SECTION 72. SPS 382.41 (4) (o) is repealed.

SECTION 73. SPS 382.41 (5) (c), (d) 2., (e) 1. (intro.), 3. a., (f) (intro.) and (g) are amended to read:

SPS 382.41 (5) (c) Cross connection control devices and assemblies shall be protected from freezing.

(d) 2. A cross connection control device or assembly which has one or more vent ports may not be located in a pit, vault or depression which is below the adjacent grade or floor level, even if the pit, vault or depression is provided with a drain at the bottom of the pit.

(e) 1. Vent ports of cross connection control devices or assemblies shall be positioned:

3. a. If a pressure vacuum breaker assembly, reduced pressure principle backflow ~~preventer~~ prevention assembly, or a reduced pressure detector backflow ~~preventer~~ prevention assembly, is located within a building, a drain or receptor shall be provided to receive the discharge from the vent ports of the ~~device~~ assembly. If a floor drain is to receive the discharge from the vent ports of a pressure vacuum breaker assembly, reduced pressure principle backflow ~~preventer~~ prevention assembly or a reduced pressure detector backflow ~~preventer~~ prevention assembly, the flow or pathway of the discharge may not create a nuisance.

(f) The installation of a reduced pressure principle backflow ~~preventer, a reduced pressure principle fire protection backflow preventer~~ prevention assembly, a reduced pressure detector ~~fire protection~~ backflow prevention assembly, a double check backflow prevention assembly, ~~a double check fire protection backflow prevention assembly,~~ a double check detector fire protection backflow prevention assembly, a pressure vacuum breaker assembly, and a spill resistant vacuum ~~beaker~~ breaker assembly shall conform to all of the following limitations:

(g) The discharge outlet of local waste piping serving a cross connection control device or assembly shall be visible and not be located within a concealed space.

SECTION 74. SPS 382.50 (3) (b) 10. and 11. b. are repealed.

SECTION 75. SPS 382.50 (3) (b) 14. is amended to read:

SPS 382.50 (3) (b) 14. Expansion tanks ~~installed in~~ serving the hot water distribution system shall be of the flow−through type. Where an expansion tank is provided, a check valve shall be provided upstream of the expansion tank. If a bypass and bypass valve are provided for a flow through expansion tank, the bypass valve shall be closed and locked.

SECTION 76. SPS 382.51 (1) and (2) are repealed and recreated to read:

SPS 382.51 (1) SANITARY DRAIN SYSTEMS. Sanitary drain systems serving a manufactured home or manufactured home community shall comply with the provisions applicable to building sewers in s. SPS 382.30 and all of the following:

(a) The manufactured home drain connector shall have a minimum slope of 1/8 inch per foot.

(b) The manufactured home drain connector shall be constructed of materials suitable for aboveground drain and vent pipe and tubing as specified in s. SPS 384.30 (2) (a).

(c) The building sewer, sanitary and manufactured home community drain system, sanitary shall be constructed of materials suitable for sanitary building sewer pipe, as specified in s. SPS 384.30 (2) (c).

(d) The most upstream point of the building sewer, sanitary or manufactured home community drain system, sanitary shall be determined at its connection with the manufactured home drain connector.

(e) The building sewer, sanitary or manufactured home community drain system, sanitary shall terminate above the surrounding finished grade.

(f) Cleanouts shall be provided to comply with s. SPS 382.35, suitable for sanitary building sewers. Additionally, a cleanout shall be provided at the point where more than one manufactured home is served by a single drain.

(g) A means to locate buried non−metallic manufactured home community drain systems, sanitary, that discharge to municipal mains shall be provided in accordance with the options under s. SPS 382.30 (11) (h).

(h) Testing and inspection shall be conducted to comply with s. SPS 382.21, suitable for sanitary building sewer and sanitary private interceptor main sewer.

(2) WATER SUPPLY SYSTEMS. Water supply systems serving a manufactured home or a manufactured home community shall comply with s. SPS 382.40 and all of the following:

(a) For manufactured homes, the most downstream point of the water service or manufactured home community water supply system shall be determined at the connection with the water distribution piping by the manufactured home manufacturer prior to delivery.

(b) The water service, private water main and manufactured home community water supply system shall be constructed of materials suitable for water services and private water mains as specified in s. SPS 384.30 (4) (d).

(c) A manufactured home water connector shall be constructed of materials suitable for water distribution piping and tubing as specified in s. SPS 384.30 (4) (e).

(d) A curb stop shall be provided for an individual manufactured home. The curb stop shall terminate outside the perimeter of the manufactured home.

(e) A building control valve shall be provided on the water service or manufactured home community water supply system a minimum of 6 inches above the surrounding grade.

(f) A means to locate buried non−metallic manufactured home community water supply systems to municipal supply systems shall be provided in accordance with s. SPS 382.40 (8) (k).

(g) The water supply system shall be designed for periodic flushing at a minimum velocity of 3 feet per second per ANSI/AWWA Standard C651, Table 3.

(h) Testing and inspection shall be conducted to comply with s. SPS 382.21, suitable for private water mains and water services.

SECTION 77. SPS 382.51 (3) (a) 1., (b) (intro.), and 1. and 2., are amended to read:

SPS 382.51 (3) (a) 1. Water ~~service and building~~ supply, sanitary sewer ~~connections~~ and storm sewer piping extending up through the ground surface shall be provided with frost sleeves extending to within 6 inches of the top of the below ground horizontal ~~building~~ sewer or water ~~service~~ supply system, or to a depth at least 6 inches below the predicted depth of frost in accordance with Table 382.30−6.

(b) ~~Termination~~ Terminations of the water service ~~building~~, manufactured home community water supply system, sanitary sewer, manufactured home community drain system, sanitary, storm sewer, and manufactured home community drain system, storm serving a manufactured home shall conform to all of the following:

1. The ~~manufactured home~~ water service ~~for connection to~~ or manufactured home community water supply system serving the manufactured home shall terminate a minimum of 6 inches above the surrounding finished grade.

2. The ~~manufactured home building~~ sanitary sewer ~~for connection to~~ or manufactured home community drain system, sanitary serving the manufactured home shall terminate a minimum of 4 inches above the surrounding finished grade and may not terminate higher than the water service termination or manufactured home water supply system termination.

SECTION 78. SPS 382.51 (3) (b) 3. is created to read:

SPS 382.51 (3) (b) 3. The storm sewer or manufactured home community drain system, storm serving the manufactured home shall terminate a minimum of 4 inches above the surrounding finished grade and may not terminate higher than the water service termination or manufactured home water supply system termination.

SECTION 79. SPS 382.51 (3) (c) is amended to read:

SPS 382.51 (3) (c) The ~~manufactured home~~ water service ~~and building~~, manufactured home community water supply system, sanitary sewer, manufactured home community drain system, sanitary, storm sewer, and manufactured home community drain system, storm for a manufactured home shall be capped or plugged when not connected to a manufactured home.

SECTION 80. SPS 383.21 (3) (f) is amended to read:

SPS 383.21 (3) (f) A governmental unit may deny the issuance of a sanitary permit ~~only~~ if the application does not comply with the requirements of chs. SPS 383, 384 or 385 or when an existing POWTS system is determined to be failing, and a municipal or public sewer system is readily available.

SECTION 81. SPS 383.54 (3) (b) and (4) (a) are amended to read:

SPS 383.54 (3) (b) The servicing frequency of an anaerobic treatment tank for a POWTS shall occur at least when the combined sludge and scum volume equals 1/3 of the tank volume. If after 3 years the combined sludge and scum volume is determined to be less than 1/3 of the tank volume, and servicing of the tank is not performed the tank shall be reinspected annually to ensure combined sludge and scum volumes do not exceed 1/3 of the tank volume. Yearly inspection will cease after the tank is serviced again and shall then be reinspected or serviced in 3 years to determine sludge and scum levels.

(4) (a) The servicing frequency of an anaerobic treatment tank for a POWTS existing prior to July 1, 2000, shall occur at least when the combined sludge and scum volume equals 1/3 of the tank volume. If after 3 years the combined sludge and scum volume is determined to be less than 1/3 of the tank volume, and servicing of the tank is not performed the tank shall be reinspected annually to ensure combined sludge and scum volumes do not exceed 1/3 of the tank volume. Yearly inspection will cease after the tank is serviced again and shall then be reinspected or serviced in 3 years to determine sludge and scum levels.

SECTION 82. SPS 384.11 is amended to read:

SPS 384.11 Appurtenance, device, fixture, material, and method listings. ~~Appurtenances, devices, fixtures, materials and methods shall conform to the referenced standard in Table 384.11.~~ Appurtenances, devices, fixtures, materials, and methods shall be listed by a nationally recognized, ANSI accredited, third party agency acceptable to the department. Appurtenances, devices, fixtures, materials, and methods that do not conform to the listed standards may achieve code compliance via Alternate or Experimental approvals in accordance with s. SPS 384.50.

SECTION 83. SPS Table 384.11 is repealed.

SECTION 84. SPS 384.20 (2) (b) and (Note) are amended to read:

SPS 384.20 (2) (b) All plumbing fixture fittings which are end-point devices, covered by the scope of ~~NSF~~ NSF/ANSI/CAN 61, section 9 and installed to supply water intended for human ingestion, shall conform to ~~NSF~~ NSF/ANSI/CAN 61, section 9.

Note: The scope of ~~NSF~~ NSF/ANSI/CAN 61~~, annex G,~~ defines which devices are intended for use for human ingestion in response to Section 1417 of the federal Safe Drinking Water Act, as amended.

SECTION 85. SPS 384.20 (4) (b) 2. is amended to read:

SPS 384.20 (4) (b) 2. 'Securing wall mounted fixtures.' Wall mounted fixtures shall be rigidly supported by a hanger which is attached to structural members so that the load is not transmitted to the fixture drain connection or any other part of the plumbing system. ~~The hanger for a wall mounted water closet shall conform to ASME A112.6.1M.~~

SECTION 86. SPS 384.20 (4) (b) 2. a. and b. are created to read:

SPS 384.20 (4) (b) 2. a. When a floor-affixed support is used for off-the-floor fixtures, the support shall conform to ASME A112.6.1M.

b. When a carrier style manufactured framing-affixed support is used for off-the-floor fixtures, the support shall conform to ASME A112.6.2.

Note: The adoption of these standards is intended for "carrier" style, manufactured supports. It is not intended to prohibit the use of other acceptable methods of hanging fixtures.

SECTION 87. SPS 384.20 (5) (a) is amended to read:

SPS 384.20 (5) (a) *Automatic clothes washers.* Residential type automatic clothes washers shall ~~conform to ASSE 1007~~ be provided with an integral air gap or an approved cross connection method, device, or assembly outlined in Table 382.41-1 shall be installed. Air gaps shall comply with ASME A112.1.2 or A112.1.3.

SECTION 88. SPS 384.20 (5) (am) is created to read:

SPS 384.20 (5) (am) *Automatic Ice Making Equipment.* Automatic ice making equipment shall conform to NSF/ANSI 12.

SECTION 89. SPS 384.20 (5) (b) 1. b. and (d) are amended to read:

SPS 384.20 (5) (b) 1. b. Porcelain enameled formed steel bathtubs shall conform to ASME ~~A112.19.4M~~ A112.19.1/CSA B45.2.

(d) *Chemical dispensing systems.* Chemical dispensing systems shall conform to ~~ASSE 1055~~ ANSI/CAN/ASSE/IAPMO 1055.

SECTION 90. SPS 384.20 (5) (dm) is created to read:

SPS 384.20 (5) (dm) *Clothes dryers.* Clothes dryers shall be provided with an integral air gap or an approved cross connection method, device, or assembly outlined in Table 382.41-1 shall be installed. Air gaps shall comply with ASME A112.1.2 or A112.1.3.

SECTION 91. SPS 384.20 (5) (e) 1., (f) 1., (g) (Title), and 1. to 3. are amended to read:

SPS 384.20 (5) (e) 1. Residential type dishwashing machines shall ~~conform to ASSE 1006~~ be provided with an integral air gap or an approved cross connection method, device, or assembly outlined in Table 382.41-1 shall be installed. Air gaps shall comply with ASME A112.1.2 or A112.1.3.

(f) 1. Drinking fountains and water coolers shall conform to ~~ARI 1010 or~~ ASME ~~A112.19.2~~ A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4.

(g) *Floor and trench drains.*

1. Floor and trench drains shall be provided with removable strainers of sufficient strength to carry the anticipated loads.

2. The floor or trench drain shall be so constructed that it can be cleaned, and the drain inlet shall be accessible at all times.

3. Floor and trench drains shall be of a size to efficiently serve the intended purpose. The floor or trench drain outlet ~~shall~~ may not be less than 2 inches in diameter.

SECTION 92. SPS 384.20 (5) (fm) and (g) 4. are created to read:

SPS 384.20 (5) (fm) *Emergency fixtures.* Emergency showers, eyewashes, eye/face washes, and combination units shall conform to ANSI/ISEA Z358.1.

(g) 4. Floor and trench drains shall conform to ASME A112.6.3.

SECTION 93. SPS 384.20 (5) (h) 1., (j) 1. a. to e., 2., and (5) (L) 1. and 4. are amended to read:

SPS 384.20 (5) (h) 1. Residential type food waste grinders shall conform to ASSE 1008. Commercial type food waste grinders shall conform to ~~ASSE 1009 or~~ an approved cross connection method, device, or assembly outlined in Table 382.41-1.

(j) 1. a. Enameled cast iron lavatories shall conform to ASME ~~A112.19.1M~~ A112.19.1/CSA B45.2.

b. Vitreous china lavatories shall conform to ASME ~~A112.19.2M~~ A112.19.2/CSA B45.1.

c. Stainless steel lavatories shall conform to ASME ~~A112.19.3~~ A112.19.3/CSA B45.4.

d. Porcelain enameled formed steel lavatories shall conform to ASME ~~A112.19.4~~ A112.19.1/CSA B45.2.

e. Plastic lavatories shall conform to ~~ANSI Z124.3~~ CSA B45.5/IAPMO Z124.

2. Cultured marble vanity tops with an integral lavatory shall conform to ~~ANSI Z124.3~~ CSA B45.5/IAPMO Z124.

(5) (L) 1. Prefabricated plastic showers and shower compartments shall conform to ~~ANSI A124.1.2~~ CSA B45.5/IAPMO Z124. Manufactured shower receptors and shower bases shall conform to ASME A112.19.1/CSA B45.2, ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4, or CSA B45.5/IAPMO Z124.

4. ~~All~~ Except as provided in subd. 5., all shower compartments, regardless of shape, shall have a minimum finished interior of 900 square inches and shall be capable of encompassing a circle with a diameter of 30 inches. The minimum required area and dimension shall be measured in a horizontal plane 24 inches above the top of the threshold and may not extend beyond the centerline of the threshold. The minimum area and dimensions shall be maintained to a point 70 inches above the shower waste outlet with no protrusions other than the fixture valve or valves, showerheads, soap dishes, retractable seats and safety grab bars or rails.

SECTION 94. SPS 384.20 (5) (L) 5. is created to read:

SPS 384.20 (5) (L) 5. Shower compartments, regardless of shape, not capable of encompassing a circle with a diameter of 30 inches shall be capable of encompassing a circle with a diameter of not less than 25 inches, provided the shower compartment has not less than 1,300 square inches of cross sectional area. The minimum area and dimensions shall be maintained to a point 70 inches above the shower waste outlet with no protrusions other than the fixture valve or valves, showerheads, soap dishes, retractable seats and safety grab bars or rails.

SECTION 95. SPS 384.20 (5) (m) 1. a. to e., (n) 1. a. and b., 5., (o) 1. a. and b., and 6. are amended to read:

SPS 384.20 (5) (m) 1. a. Enameled cast iron sinks shall conform to ASME ~~A112.19.1M~~ A112.19.1/CSA B45.2.

b. Vitreous china sinks shall conform to ASME ~~A112.19.2~~ A112.19.2/CSA B45.1.

c. Stainless steel sinks shall conform to ASME ~~A112.19.3~~ A112.19.3/CSA B45.4.

d. Porcelain enameled formed steel sinks shall conform to ASME ~~A112.19.4~~ A112.19.1/CSA B45.2.

e. Plastic sinks shall conform to ~~ANSI Z124.6~~ CSA B45.5/IAPMO Z124.

(n) 1. a. Vitreous china urinals shall conform to ASME ~~A112.19.2~~ A112.19.2/CSA B45.1.

b. Plastic urinals shall conform to ~~ANSI Z124.9~~ CSA B45.5/IAPMO Z124.

5. Pressurized flushing devices to serve urinals shall conform to ASSE ~~1037~~ 1037/ASME A112.1037/CSA B125.37.

(o) 1. a. Vitreous china water closets shall conform to ASME ~~A112.19.2~~ A112.19.2/CSA B45.1.

b. Plastic water closets shall conform to ~~ANSI Z124.4~~ CSA B45.5/IAPMO Z124.

6. Each water closet shall be individually equipped with a flushing device. Pressurized flushing devices shall conform to ASSE ~~1037~~ 1037/ASME A112.1037/CSA B125.37. All flushing devices shall be readily accessible for maintenance and repair. ~~Ballcocks and fill~~ Fill valves shall be of the anti-siphon type and shall conform to ASSE ~~1002~~ 1002/ASME A112.1002/CSA B125.12. The critical level mark on the ~~ballcock and~~ anti-siphon fill valve shall be located at least one inch above the full opening of the overflow pipe.

SECTION 96. SPS 384.20 (5) (o) 7. is created to read:

SPS 384.20 (5) (o) 7. Personal hygiene devices installed on water closets shall conform to ASME A112.4.2/CSA B45.16.

SECTION 97. SPS 384.20 (5) (p) 6. and (q) and (r) (Title) and 1. are amended to read:

SPS 384.20 (5) (p) 6. The initial temperature of water from ~~tankless type~~ instantaneous water heaters installed for one- and 2-family dwelling use shall be ≤125°F.

(q) *Water meters.* A water meter which is used pursuant to s. SPS 383.54 (2) shall conform to AWWA C700, AWWA C701, AWWA C702, AWWA C704, ~~AWWA C706,~~ AWWA C707, AWWA C708, or AWWA C710.

(r) *Water treatment devices, chemicals, and components.*

1. Water ~~softeners shall conform to NSF 44~~ treatment devices, chemicals, and components shall conform to a standard in Table 384.20-2.

SECTION 98. SPS Table 384.20-2 is created to read:

Table 384.20-2
Water Treatment Devices, Chemicals, Components

Applicable Items	Referenced Standard
Drinking Water Treatment Units - Aesthetic Effects	NSF/ANSI 42
Residential Cation Exchange Water Softeners	NSF/ANSI 44
Drinking Water Treatment Units - Health Effects	NSF/ANSI 53
Ultraviolet Microbiological Water Treatment Systems	NSF/ANSI 55
Reverse Osmosis Drinking Water Systems	NSF/ANSI 58
Drinking Water Treatment Chemicals - Health Effects	NSF/ANSI/CAN 60
Drinking Water Distillation Systems	NSF/ANSI 62
Drinking Water System Components - Lead Content	NSF/ANSI 372
Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities	NSF/ANSI/CAN 50

SECTION 99. SPS 384.20 (6) (a) is amended to read:

SPS 384.20 (6) (a) ~~Except for circular and semi-circular wash fountains, all~~ All faucets and showerheads shall conform to ASME ~~A112.18.1 or CAN/CSA B125.1~~ A112.18.1/CSA B125.1.

SECTION 100. SPS 384.20 (6) (b) is repealed.

SECTION 101. SPS 384.20 (6) (c) (intro.), 2. b., and c. are amended to read:

SPS 384.20 (6) (c) Flexible fixture supply connectors shall conform to ASME ~~A112.18.6-2017/CSA B125.6-17~~ A112.18.6/CSA B125.6 and all of the following:

2. b. "For use with water in accessible locations only." This requirement is not applicable to flexible connectors integral to an ASME ~~A112.8.1/CSA B125.1~~ A112.18.1/CSA B125.1 compliant faucet.

c. Flexible connectors intended only for cold water applications shall include "Only for use with cold water." This requirement is not applicable to flexible connectors integral to an ASME ~~A112.8.1/CSA B125.1~~ A112.18.1/CSA B125.1 compliant fixture.

SECTION 102. SPS 384.20 (7) and Table 384.20-3 are created to read:

SPS 384.20 (7) WASTEWATER TREATMENT COMPONENTS AND METHODS. Wastewater treatment components and methods, other than POWTS, shall conform to the applicable standard in Table

384.20-3.

Table 384.20-3
Wastewater Treatment Components and Methods

Applicable Components and Methods	Referenced Standard(s)
Drainfield Trench Product Sizing for Gravity Dispersal Onsite Wastewater Treatment and Dispersal Systems	NSF/ANSI 240
Evaluation of Components and Devices Used in Wastewater Treatment Systems	NSF/ANSI 46
FOG (Fats, Oils and Greases) Disposal Systems	ASME A112.14.6
Grease Interceptors	CSA B481 Series 12
Grease Interceptors, Corrugated HDPE	ASTM F2649
Grease Interceptors, Hydromechanical	ASME A112.14.3
Grease Interceptors, Precast Concrete	ASTM C1613
Grease Interceptors with FOG Sensing and Alarm Devices, Testing and Certification for	PDI-G 102
Grease Removal Devices	ASME A112.14.4
Hydro Mechanical Grease Interceptors with Appendix of Installation and Maintenance, Testing and Rating Procedure for	PDI-G 101
Installation of Thermoplastic Pipe and Corrugated Pipe in Septic Tank Leach Fields, Standard Practice for	ASTM F481
Non-Liquid Saturated Treatment Systems	NSF/ANSI 41
Onsite Residential and Commercial Water Reuse Treatment Systems	NSF/ANSI 350
Onsite Residential and Commercial Greywater Treatment Systems for Subsurface Discharge	NSF/ANSI 350-1
Prefabricated Grease Interceptors	IAPMO/ANSI Z1001
Prefabricated Septic Tanks and Sewage Holding Tanks, Design, Material and Manufacturing Requirements for	CSA B66
Residential Wastewater Treatment Systems	NSF/ANSI 40
Residential Wastewater Treatment Systems – Nitrogen Reduction	NSF/ANSI 245
Septic Tanks, Precast Concrete	ASTM C1227

SECTION 103. SPS 384.30 (1) (a) to (f) and (1m) are created to read:

SPS 384.30 (1) (a) The bending or offsetting of flexible or annealed pipe or tubing shall be in accordance with the applicable material standard or the instructions of the manufacturer of the pipe or tubing.

(b) Pipe or tubing with gouges, cuts or deep scratches may not be installed.

(c) Pipe or tubing which has been kinked may not be installed.

(d) The bending or offsetting of rigid pipe shall be prohibited.

(e) Plastic pipe or tubing and copper pipe or tubing penetrating building framing members within 1 inch of the framing edge shall be protected by steel plates not less than no. 18 gauge in thickness. The steel nail plate shall extend along the building framing member not less than 1 1/2 inches beyond the outside diameter of the pipe or tubing.

(f) Pipe and tubing for water distribution systems downstream of treatment devices designed to serve fixtures, appliances and devices that provide < 1 gpm at each outlet shall be sleeved when penetrating a wall, floor or structural member.

(1m) LEAD-FREE MATERIALS.

(a) *Definitions.* In this subsection:

1. "Coating" means a thin layer of material such as paint, epoxy, zinc galvanization, or other material usually applied by spraying or in liquid form to coat internal surfaces of pipes, fittings, or fixtures.

2. "Liner" means a rigid lining such as a plastic or copper sleeve that is sealed with a permanent barrier to exclude lead-bearing surfaces from water contact and of sufficient thickness and otherwise having physical properties necessary to prevent erosion and cracking for the expected useful life of the product.

3. "Public water system" has the meaning in 40 CFR 141.2

(b) *Water supply systems.* Except as provided in par. (c) and notwithstanding the provisions of sub. (4), no person may use any pipe, any pipe or plumbing fitting or fixture, any solder or any flux that is not lead-free as defined in s. SPS 381.01 (141) in the installation or repair of:

1. Any public water system.

2. Any plumbing in a residential or nonresidential facility providing water for human consumption.

(c) *Repair of cast iron pipes.* The requirements of par. (b) shall not apply to leaded joints necessary for the repair of cast iron pipes.

(d) *Calculation.* Calculations to determine the lead content of a material, pipe, pipe fitting, plumbing fitting, or fixture shall comply with all of the following:

1. The weighted average lead content of a pipe, pipe fitting, plumbing fitting, or fixture is calculated by using the following formula: For each wetted component, the percentage of lead in the component is multiplied by the ratio of the wetted surface area of that component to the total wetted surface area of the entire product to arrive at the weighted percentage of lead of the component. The weighted percentage of lead of each wetted component is added together, and the sum of these weighted percentages constitutes the weighted average lead content of the product. The lead content of the material used to produce wetted components is used to determine if a material is lead-free. For lead content of materials that are provided as a range, the maximum content of the range must be used.

2. If a coating is applied to the internal surfaces of a pipe, fitting or fixture component, the maximum lead content of both the coating and the alloy must be used to calculate the lead content of the component.

3. If a liner is manufactured into a pipe, fitting or fixture, the maximum lead content of the liner must be used to calculate the lead content of the component.

4. If a fixture contains any media (e.g., activated carbon, ion exchange resin) contained in filters, the media are not to be used in determining the "total wetted surface area of the entire product" in subd. 1. of this section.

5. In addition to the definition of "lead-free" in s. SPS 381.01 (141) and the requirements of this subsection, no drinking water cooler, which contains any solder, flux, or storage tank interior surface, which may come into contact with drinking water, is lead-free if the solder, flux, or storage tank interior surface contains more than 0.2 percent lead. Drinking water coolers must be manufactured such that each individual part or component that may come in contact with drinking water shall not contain more than 8 percent lead while still meeting the maximum 0.25 percent weighted average lead content of the wetted surfaces of the entire product.

SECTION 104. SPS Table 384.30-1, Table 384.30-2, Table 384.30-3, Table 384.30-4, Table 384.30-5, 384.30 (3) (d), (e) 3. (Note), Table 384.30-6, Table 384.30-7, Table 384.30-8, and (5) (a) are amended to read:

Table 384.30-1 (Partial)
ABOVE GROUND DRAIN AND VENT PIPE AND TUBING

Material	Standard
Acrylonitrile butadiene styrene (ABS)	~~ASTM D1527;~~ ASTM D2661

Table 384.30-2 (Partial)
UNDERGROUND DRAIN AND VENT PIPE AND TUBING

Material	Standard
Acrylonitrile butadiene styrene (ABS)	~~ASTM D1527;~~ ASTM D2661
Chlorinated Poly Vinyl Chloride (CPVC)[d]	ASTM D2846/D2846M; ASTM F441/F441M; ASTM F442/F442M; ASTM F2618
Stainless steel[d] (316L)	ASME A112.3.1; ASME ~~B36.19 / B36.19M~~ B36.19; ASME B36.19M; ASTM A269/A269M; ASTM A312/A312M; ASTM A450/A450M; ASTM A778/A778M; AWWA C220

~~**d.** Type 304 may not be installed underground.~~

Table 384.30-3 (Partial)
SANITARY BUILDING SEWER PIPE AND TUBING

Material	Standard
Acrylonitrile butadiene styrene (ABS)[a]	~~ASTMD1527;~~ ASTM D2661~~; ASTM D2751~~
Chlorinated polyvinyl chloride (CPVC)[e] [a]	ASTM F441/F441M; ASTM F442/F442M; ASTM F2618; ASTM D2846
~~PVC Large-Diameter Plastic Gravity Sewer Pipe and Fittings~~	~~ASTM F679~~
~~Type PS-46 and Type PS-115 PVC Plastic Gravity Flow Sewer Pipe and Fittings[a]~~	~~ASTM F789~~
Stainless steel (316L)	ASME A112.3.1; ASME ~~B36.19 / B36.19M~~ B36.19; ASME B36.19M; ASTM A269/A269M; ASTM A312/A312M; ASTM A450/A450M; ASTM A778/A778M; AWWA C220

Table 384.30-4 (Partial)
PERFORATED EFFLUENT DISTRIBUTION PIPING FOR NONPRESSURIZED SOIL ABSORPTION SYSTEMS

Material	Standard
Acrylonitrile butadiene styrene (ABS)	~~ASTMD1527;~~ ASTM D2661~~;~~ ~~ASTM D2751~~

(3) (d) Subsoil drains shall be open jointed, horizontally split, or perforated pipe conforming to one of the standards listed in Table ~~384.30-7~~ 384.30-4.

Table 384.30-5 (Partial)
PRESSURIZED DRAIN PIPE AND TUBING AND SERVICE SUCTION LINES

Material	Standard
Acrylonitrile butadiene styrene (ABS)[a]	~~ASTMD1527;~~ ASTM D2661
Polyethylene (PE)	ASTM F714

(e) 3. Note: See s. SPS 382.36 (10) ~~and (11)~~ for additional roof drain requirements.

Table 384.30-6 (Partial)
STORM BUILDING SEWER PIPE AND TUBING

Material	Standard
Acrylonitrile butadiene styrene (ABS)[a]	~~ASTMD1527;~~ ASTM D2661~~;~~ ~~ASTM D2751~~
~~PVC Large-Diameter Plastic Gravity Sewer Pipe and Fittings~~	~~ASTM F679~~
~~Type PS-46 and Type PS-115 PVC Plastic Gravity Flow Sewer Pipe and Fittings~~	~~ASTM F789~~
Stainless steel (316L)	ASME A112.3.1; ASME ~~B36.19 / B36.19M~~ B36.19; ASME B36.19M; ASTM A269/A269M; ASTM A312/A312M; ASTM A450/A450M; ASTM A778/A778M; AWWA C220

Table 384.30-7 (Partial)
PIPE AND TUBING FOR WATER SERVICES AND PRIVATE WATER MAINS

Material	Standard
~~Acrylonitrile butadiene styrene (ABS)[a]~~	~~ASTM D1527; ASTM D2282~~
Polyethylene (PE)[a]	ASTM D2239; ASTM D2737; ~~ASTM D2104; ASTM D2447;~~ ASTM D3035; AWWA C906; AWWA C901
Stainless steel ~~(316L)~~ [e]	ASME B36.19/B36.19M; ASTM A269; ASTM A270; ASTM A312; ASTM A358/A358M; ASTM A450; ASTM A554; ASTM A778/A778M

~~**d.** May not be threaded.~~

e. Type 304 may not be installed underground.

Table 384.30-8 (Partial)
WATER DISTRIBUTION PIPE AND TUBING

Material	Standard
Polypropylene (PP-RCT)	ASTM F2389
Stainless Steel ~~(316L)~~ [h]	ASME B36.19M; ASTM A269; ASTM A270; ASTM A312; ASTM A358/A358M; ASTM A450; ASTM A554; ASTM A778/A778M

~~**f.** Use is limited to cold water distribution only.~~

~~**g.** May not be threaded.~~

h. Type 304 may not be installed underground.

(5) (a) *Fittings.* Pipe fittings shall conform to the pipe material standards listed in this chapter or one of the standards listed in Table ~~384.30-11~~ 384.30-9. Threaded drain pipe fittings shall be of the recessed drainage type.

SECTION 105. SPS Table 384.30-9, 384.30 (5) (bm), and Table 384.30-10 are created to read:

Table 384.30-9
Fittings

Fittings	Referenced Standard(s)[a]
Fittings, Acrylonitrile Butadiene Styrene (ABS)	ASTM D3311, ASTM F409

Fittings, Appurtenances or Valves for use in CPVC or CPVC Systems, Specially Engineered	ASTM F1970
Fittings, Cast Bronze	ASME B16.15, ASME B16.24
Fittings, Cast Copper Alloy	ASME B16.18, ASME B16.23, ASME B16.26
Fittings, Cast Iron	ASME B16.1, ASME B16.4, ASME B16.12, ASME B16.45
Fittings, Chlorinated Polyvinyl Chloride (CPVC)	ASTM F437, ASTM F438, ASTM F439
Fittings, Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing	ASTM F1960
Fittings, Cold-Expansion with Metal Compression Sleeves for Crosslinked Polyethylene (PEX) Pipe and SDR9 Polyethylene of Raised Temperature (PE-RT) Pipe	ASTM F2080
Fittings, Copper	ASME B16.22, ASME B16.29
Fittings, Crosslinked Polyethylene (PEX)	ASTM F1807
Fittings, Ductile Iron and Gray Iron	AWWA C110, AWWA C153, ASME B16.42
Fittings, Gray Iron Pipe Flanges and Flanged Fitting Classes 25, 125 and 250	ASME B16.1
Fittings, Gray Iron Threaded Fitting Classes 125 and 250	ASME B16.4
Fittings, Malleable Iron[b]	ASME B16.3
Fittings, Metric- and Inch-Sized Fittings for PEX Pipe	ASTM F2829/F2829M
Fittings, Polyethylene (PE)	ASTM D2609, ASTM D2683, ASTM D3261
Fittings, Polyvinyl Chloride (PVC)	ASTM D2464, ASTM D2466, ASTM D2467, ASTM D3311, ASTM F409, ASTM F1336, ASTM F1866
Fittings, Polyvinyl Chloride (PVC) Gasketed Sewer	ASTM F1336

Fittings, Push-Fit[c, d]	ASSE 1061
Fittings, Push-Fit PEX Mechanical Fittings for PEX Tubing	ASTM F2854
Fittings, Stainless Steel	ASTM A403/A403M, ASTM A774/A774M
Fittings, Standard Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene and PEX Pipe and Tubing	ASTM F1055
Fittings, Steel[e]	ASME B16.5, ASME B16.9, ASME B16.11, ASME B16.28
Gaskets, Rubber for Cast Iron Soil Pipe and Fittings	ASTM C564, CISPI 301, FM 1680
Insert Fittings, Metal, for PE-AL-PE and Crosslinked PEX-AL-PEX Composite Pressure Pipe, Standard Specification for	ASTM F1974
Insert Fittings, Metal, Utilizing a Copper Crimp Ring for SDR9 PEX and SDR9 PEX-AL-PEX Tubing, Standard Specification for	ASTM F2434
Insert Fittings, Metal Press with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE- RT) Tubing	ASTM F3347
Insert Fittings, Plastic, for SDR9 PEX and PE-RT Tubing	ASTM F2735
Insert Fittings, Plastic Press with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE- RT) Tubing	ASTM F3348
Insert Fittings, Plastic Utilizing a Copper Crimp Ring, or Alternate Stainless Steel Clamps for SDR9 Crosslinked Polyethylene (PEX) Tubing and SDR9 Polyethylene of	ASTM F2159

Raised Temperature (PE-RT) Tubing	
Insert Fittings, Stainless Steel Clamps for Securing SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) to Metal Insert and Plastic Insert Fittings	ASTM F2098

a. The specific standard edition adopted is specified in s. SPS 381.20.
b. NSF Registration Guidelines for Proprietary Substances and Nonfood Compounds. The NSF Nonfood Compounds Registration Program is a continuation of the USDA product approval and listing program, which is based on meeting regulatory requirements including FDA 21 CFR for appropriate use, ingredient, and labeling: https://info.nsf.org/usda/psnclistings.asp.
c. Nominal size ≤ 2 inches CTS.
d. May not be used in temperature/pressure relief valve drain lines unless they are tested and rated for excessive conditions of 210°F (98.9°C) and 150.0 psig (1034 kPa), per ASME A112.4.1 or ASTM F877.
e. Steel and malleable iron fittings used in a water supply system shall be galvanized in accordance with ASTM A123/A123M.

SPS 384.30 (5) (bm) *Cross connection control.* A cross connection control method, device, or assembly shall conform to a referenced standard in Table 384.30-10 and listed by a nationally recognized listing agency acceptable to the department.

Note: See SPS 384 Appendix for a list of nationally recognized listing agencies acceptable to the Department.

Table 384.30-10
Cross Connection Control

Backflow Preventer	Adopted Standard
Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors)	ASME A112.1.2
Air Gap Fittings for use with Plumbing Fixtures, Appliances, and Appurtenances	ASME A112.1.3
Atmospheric Type Vacuum Breakers	ASSE 1001 / CSA B64.1.1
Backflow Preventers for Beverage Dispensing Equipment	ASSE 1022 / CSA B64.3.1
Backflow Preventers for Hand-Held Showers	ASSE 1014, ASME A112.18.1/CSA B125.1, or ASME A112.18.3

Backflow Preventers with Integral Pressure Reducing Boiler Fee Valve and Intermediate Atmospheric Vent Style for Domestic and Light Commercial Water Distribution Systems	ASSE 1081
Backflow Preventers with an Intermediate Atmospheric Vent	ASSE 1012 / CSA B64.3
Backflow Protection Devices and Systems in Plumbing Fixture Fittings	ASME A112.18.3
Double Check Backflow Prevention Assemblies	ASSE 1015 / CSA B64.5
Double Check Valve Backflow Preventers for Fire Protection Systems	CSA B64.5.1
Double Check Detector Backflow Prevention Assemblies	ASSE 1048
Dual Check Backflow Preventers	ASSE 1024 / CSA B64.6
Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers, Post Mix Type, and Non-Carbonated Beverage Dispensers	ASSE 1032
Hose Connection Backflow Preventers	ASSE 1052 / CSA B64.2.1.1
Hose Connection Vacuum Breakers	ASSE 1011 / CSA B64.2
Laboratory Faucet Backflow Preventers	ASSE 1035 / CSA B64.7
Pressure Vacuum Breaker Assemblies	ASSE 1020 / CSA B64.1.2
Pressurized Flushing Devices for Plumbing Fixtures	ASSE 1037/ASME A112.1037/CSA B123.37
Reduced Pressure Principle Backflow Prevention Assemblies	ASSE 1013 / CSA B64.4
Reduced Pressure Principle Backflow Preventers for Fire Protection Systems	CSA B64.4.1
Reduced Pressure Detector Backflow Prevention Assemblies	ASSE 1047
Spill Resistant Vacuum Breaker Assemblies	ASSE 1056 / CSA B64.1.3

SECTION 106. SPS 384.30 (5) (c) 1. to 3. are amended to read:

SPS 384.30 (5) (c) 1. Water hammer arrestors shall conform to ~~ASME A112.26.1 or~~ ASSE 1010.

2. Relief valves and automatic gas shutoff devices for hot water supply systems shall conform to ANSI ~~Z21.22~~ Z21.22/CSA 4.4.

3. Backwater valves shall conform to ASME A112.14.1~~, CAN/CSA B181.1~~ or ~~CAN/CSA B181.2~~ CSA B1800.

SECTION 107. SPS 384.30 (5) (c) 4. and 6. and 7. and 8. and 9. and 10. and 13. and 14. and 15. and 16. and 17. and 18. and 19. are repealed.

SECTION 108. SPS 384.30 (5) (c) 22. to 27. are created to read:

SPS 384.30 (5) (c) 22. Yard hydrants shall conform to ASSE 1057 for freeze resistant sanitary yard hydrants with backflow prevention.

23. Stack air admittance valves for sanitary drainage shall conform to ASSE 1050.

24. Individual and branch type air admittance valves for sanitary drainage systems shall conform to ASSE 1051.

25. Valves for crosslinked polyethylene (PEX) water distribution tubing systems shall conform to NSF 359.

26. Automatic temperature control mixing valves shall conform to ASSE 1069.

27. Water temperature limiting devices shall conform to ASSE 1070/ASME A112.1070/CSA B125.70.

SECTION 109. SPS 384.30 (5) (d) 1. and (6) (c) and (e) and (f) are amended to read:

SPS 384.30 (5) (d) 1. Pipe saddles may be installed on ~~private interceptor main sewers, building~~ sewers, underground drain and vent pipe and tubing, and where otherwise approved by the department.

(6) (c) *Sheet copper.* Sheet copper for the following uses may not weigh less than indicated in subds. 1. and 2. and shall conform to ASTM ~~B152~~ B152/B152M.

(e) *Flush pipes and fittings*. Flush pipes and fittings shall be of nonferrous material and shall conform to ASME ~~A112.19.5~~ A112.19.5/CSA B45.15.

(f) *Safing material.* Safing materials shall be waterproof when subjected to 2 feet of hydrostatic head when tested in accordance with ASTM ~~C1306~~ C1306/1306M or ASTM D4068. The material shall be recognized by the manufacturer for use as a safing material.

SECTION 110. SPS 384.30 (6) (h) 4. is created to read:

SPS 384.30 (6) (h) 4. Leaching chambers shall conform to ASTM F2418, ASTM F2787, ASTM F2922, or ASTM F3430.

SECTION 111. SPS 384.30 (6) (i) 1. and (j) are amended to read:

SPS 384.30 (6) (i) 1. Conform to ASTM ~~Standard C33~~ C33/C33M for coarse aggregate prior to washing.

(j) *Sand.* Sand that is placed as a filtering medium in a stormwater subsurface infiltration system shall conform to ASTM ~~Standard C33~~ C33/C33M for fine aggregate.

SECTION 112. SPS 384.40 (2) (a) 2. and (b) 4. are repealed.

SECTION 113. SPS 384.40 (6) (a) and (b), (7) (a) and (b), (8) (a) and (d), (9) (a), and (12) (intro.) are amended to read:

SPS 384.40 (6) (a) *Mechanical joints*. Mechanical joints shall be installed in accordance with the manufacturer's instructions. Mechanical push-on type joints which use flexible elastomeric seals shall be suitable for potable water and conform to ASTM D3139.

(b) *Solvent cemented joints*. Solvent cemented joints shall be made in accordance with ASTM D2846, ASTM F493, or ASTM ~~F3328-18~~ F3328.

(7) (a) *Circular pipe*. Joints between circular concrete pipe or fittings shall be made by use of an elastomeric seal conforming to ASTM C443, ~~or~~ ASTM C443M, ASTM C990, or ASTM C990M. Joints using rubber gaskets for concrete gravity flow sewer pipe shall conform to ASTM C1628.

(b) *Elliptical pipe*. Joints between elliptical concrete pipe or fittings shall be made by use of materials conforming to ASTM C887 Type II, ~~or~~ ASTM C990, or ASTM C990M.

(8) (a) *Brazed joints.* All joint surfaces to be brazed shall be cleaned bright by other than chemical means. Brazing filler metal conforming to AWS A5.8, ~~NSF/ANSI~~ NSF/ANSI/CAN 61, ~~annex G,~~ or other approved material shall be used. The joining of water supply piping shall be made with lead-free materials.

(d) *Soldered joints.* All joint surfaces to be soldered shall be made in accordance with ASTM B828. Flux approved by NSF for use in potable water systems shall be applied to all joint surfaces. Solder conforming to ASTM B32, ~~NSF/ANSI~~ NSF/ANSI/CAN 61, ~~annex G,~~ or other approved material shall be used. The joining of water supply piping shall be made with lead-free materials.

(9) (a) *Mechanical joints.* Mechanical push-on joints and mechanical compression type joints for water supply systems shall conform to AWWA ~~C111~~ C111/A21.11. Lead tipped gaskets may not be used.

(12) PE PLASTIC PIPE AND TUBING. Joints between polyethylene plastic pipe, tubing or fittings shall be in accordance with pars. ~~(a) to~~ (b) and (c).

SECTION 114. SPS 384.40 (12) (a) is repealed.

SECTION 115. SPS 384.40 (12) (b) and (c) are amended to read:

SPS 384.40 (12) (b) *Heat fusion joints.* Heat fusion joints shall be made in accordance with ASTM ~~D2657~~ F2620. ~~Heat fusion joints shall be of a socket fusion type.~~

(c) *Mechanical joints.* Mechanical joints may be installed in accordance with the manufacturer's

instructions. Mechanical push-on joints and mechanical compression type joints which use flexible elastomeric seals shall be suitable for potable water and conform to ASTM D3139.

SECTION 116. SPS 384.40 (12m) is created to read:

SPS 384.40 (12m) POLYOLEFIN PIPE AND TUBING. Excluding polyethylene pipe and fittings, heat fusion joints between polyolefin pipe and tubing shall be made in accordance with ASTM D2657.

SECTION 117. SPS 384.40 (14) (a) 2., (b), and (16) are amended to read:

SPS 384.40 (14) (a) 2. 'Water supply systems.' Mechanical push-on joints and mechanical compression type joints for water supply systems which use flexible elastomeric seals shall be suitable for potable water and conform to ASTM D3139.

(b) *Solvent cemented joints*. Solvent cemented joints shall be made in accordance with ASTM D2855 or ASTM ~~F3328.18~~ F3328.

(16) JOINTS BETWEEN PIPE AND FITTINGS OF DIFFERENT MATERIALS. ~~Dielectric unions shall be installed at the point of connection of dissimilar metal piping materials.~~ Connections between pipes of different materials shall be made with mechanical compression type joints, installed in accordance with manufacturer's instructions or as specified in pars. (a) to (e). Dissimilar pipe materials shall be protected to prevent the flow of galvanic current or to isolate sections of pipe from stray currents which could cause accelerated corrosion and premature failure of plumbing components and associated piping. Dielectric nipples shall conform ASME B1.20.1 or ASTM A53. Dielectric unions shall conform to ASSE 1079. Dielectric flanges shall conform to ASME B16.24. Dielectric transitions fittings shall conform to ANSI/NSF-61 and NSF 372.

SECTION 118. SPS 384.40 (16) (a) to (e) are created to read:

SPS 384.40 (16) (a) *Copper to cast iron.* Connections between copper pipe or tube and cast iron pipe shall be by means of either caulked joints in accordance with sub. (5) (a) or threaded fittings in accordance with sub. (5) (c).

(b) *Cast iron to steel or brass pipe.* Connections between cast iron pipe and galvanized or black steel or brass pipe shall be by means of any of the following:

1. Caulked joints in accordance with sub. (5) (a).

2. Threaded joints in accordance with sub. (5) (c).

(c) *Plastic to other materials.*

1. Connections between plastic pipe and cast iron pipe shall be by means of any of the following:

a. Caulked joints in accordance with sub. (5) (a).

b. Threaded joints in accordance with sub. (5) (c).

2. Except as provided in par. (e), connections between different types of plastic pipe or between plastic pipe and other piping materials other than cast iron shall be by means of threaded joints in accordance with sub. (14) (c).

(d) *Lead to other piping materials.* Connections between lead pipe and other piping materials shall be by use of an adapter fitting conforming to s. SPS 384.30 (5) (a). The lead pipe shall be caulked or burned to the adapter fitting in accordance with sub. (11).

(e) *ABS plastic to PVC plastic.* For solvent−cemented connections between ABS and PVC piping in non−pressurized systems, all of the following shall apply:

1. Joint surfaces shall be clean and free of moisture.

2. Primer conforming to ASTM F656 shall be applied to all PVC joint surfaces.

3. Solvent conforming to ASTM D3138 shall be applied to all joint surfaces and the joint shall be made while the cement is wet.

4. Solvent shall be handled in accordance with ASTM F402.

SECTION 119. SPS 384.40 (18) is amended to read:

SPS 384.40 (18) CONNECTION OF PIPE TO CONCRETE STRUCTURES. Joints between concrete structures and piping or fittings shall be ~~made with mechanical joints in conformance with ASTM C923, ASTM C564~~ installed in accordance with the provisions of pars. (a) to (e) or as otherwise permitted by local authority. ~~Openings for pipe connections that are installed with mechanical joints conforming to ASTM C564 shall have an inside diameter of that required for cast iron pipe in conformance with ASTM A74.~~

SECTION 120. SPS 384.40 (18) (a) to (e) are created to read:

SPS 384.40 (18) (a) Resilient connectors between reinforced concrete manhole structures, pipes, and laterals shall conform to ASTM C923/C923M.

(b) Rubber gaskets for cast iron soil pipe and fittings shall conform to ASTM C564. Openings to cast iron soil pipe shall have an inside diameter of that required for cast iron pipe in conformance with ASTM A74.

(c) Resilient connectors between reinforced concrete manhole structures and corrugated dual- and triple-wall polyethylene and polypropylene pipes shall conform to ASTM F2510/F2510M.

(d) Resilient connectors between reinforced concrete on-site wastewater tanks and pipes shall conform to ASTM C1644.

(e) Storm drain resilient connectors between reinforced concrete storm sewer structures, pipes, and laterals shall conform to ASTM C1478/C1478M.

SECTION 121. EFFECTIVE DATE. The rules adopted in this order shall take effect on the first day of the month following publication in the Wisconsin Administrative Register, pursuant to s. 227.22 (2) (intro.), Stats.

(END OF TEXT OF RULE)
