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

Phone: 608-266-2112
Web: http://dsps.wi.gov
Email: dsps@wisconsin.gov

Scott Walker, Governor
Laura Gutiérrez, Secretary

PLUMBING CODE ADVISORY COMMITTEE MEETING
Room N206, 4822 Madison Yards Way, Madison
Contact: Mindy Allen (608) 266-2112
October 17, 2018

9:00 A.M.

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

OPEN SESSION – CALL TO ORDER – ROLL CALL

A. Adoption of Agenda (1)

B. Approval of Minutes for September 06, 2018 (2-3)

C. Administrative Matters

D. Legislative and Administrative Rule Matters - Discussion and Consideration (4-90)

1. Discussion of Department and Advisory Committee Proposed Code Changes Relating to the Plumbing Code, Chapters SPS 381 to 387
   a. SPS 381 Definitions and Standards
   b. SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing and SPS 382 Appendix
   c. SPS 383 Private Onsite Wastewater Treatment Systems and SPS 383 Appendix
   d. SPS 384 Plumbing Products and SPS 384 Appendix
   e. SPS 385 Soil and Site Evaluations
   f. SPS 386 Boat and On-Shore Sewage Facilities
   g. SPS 387 Private Onsite Wastewater Treatment System Replacement or Rehabilitation Financial Assistance Program

E. Public Comments

F. Adjournment

PLUMBING CODE ADVISORY COMMITTEE
MEETING MINUTES
SEPTEMBER 6, 2018

PRESENT: Fred Gardner (*excused at 2:41 p.m.),* Scott Chiples, Marc Rhiner, Robert Schmidt, Jason Sladky, Joseph Zoulek *(arrived at 9:30 a.m.)*

EXCUSED: Roger Musolff

STAFF: Melinda Allen, Administrative Rules Coordinator; Tom Braun, Section Chief; Ryan Boebel, Plumbing Consultant; and other Department staff

Roger Musolff, Chair, called the meeting to order at 9:08 a.m. A majority of five (5) members was present.

ADOPTION OF AGENDA

MOTION: Jason Sladky moved, seconded by Scott Chiples, to adopt the agenda as published. Motion carried unanimously.

APPROVAL OF MINUTES FOR AUGUST 7, 2018

MOTION: Fred Gardner moved, seconded by Scott Chiples, to approve the minutes of August 7, 2018 as published. Motion carried unanimously.

LEGISLATIVE AND ADMINISTRATIVE RULE MATTERS

Discussion of Department and Advisory Committee Proposed Code Changes Relating to the Plumbing Code, Chapters SPS 381 to 387

SPS 381 Definitions and Standards

MOTION: Fred Gardner moved, seconded by Joseph Zoulek, to strike county home and adopt the definition of healthcare related facility as amended as shown in 1f. Motion carried unanimously.

MOTION: Fred Gardner moved, seconded by Marc Rhiner, to create definitions for the facilities listed under the terms healthcare facility and healthcare related facility. Motion carried unanimously.

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing and SPS 382 Appendix

MOTION: Fred Gardner moved, seconded by Robert Schmidt, to amend the 382.30-1 DFU table as discussed in item 8a. Motion carried unanimously.

MOTION: Robert Schmidt moved, seconded by Fred Gardner, to incorporate items listed in 8b with items listed in 8a. Motion carried unanimously.

MOTION: Fred Gardner moved, seconded by Robert Schmidt, to repeal 382.30(4)(a)2. as shown in 8d. Motion carried unanimously.

MOTION: Joseph Zoulek moved, seconded by Fred Gardner, to withdrawal the changes made in item 19. Motion carried unanimously.

MOTION: Jason Sladky moved, seconded by Joseph Zoulek, to adopt the language in item 37a2. Motion carried unanimously.

MOTION: Jason Sladky moved, seconded by Scott Chiples, to adopt item 37a3 as amended. Motion carried unanimously.

MOTION: Fred Gardner moved, seconded by Joseph Zoulek, to table item 38a. Motion carried unanimously.

(Fred Gardner was excused at 2:41 p.m.)

MOTION: Joseph Zoulek moved, seconded by Scott Chiples, to adopt item 38a2 as amended. Motion carried unanimously.

MOTION: Joseph Zoulek moved, seconded by Robert Schmidt, to adopt item 38a3 as amended. Motion carried unanimously.

ADJOURNMENT

MOTION: Joseph Zoulek moved, seconded by Jason Sladky, to adjourn the meeting. Motion carried unanimously.

The meeting adjourned at 2:55 p.m.

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:
Mindy Allen, Administrative Rule Coordinator	September 17, 2018 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 Committee

4) Meeting Date:	5) Attachments:	6) How should the item be titled on the agenda page?
October 17, 2018	☒ Yes ☐ No	**D. Legislative and Administrative Rule Matters - Discussion and Consideration** 1. Discussion of Department and Advisory Committee Proposed Code Changes Relating to the Plumbing Code, Chapters SPS 381 to 387

7) Place Item in:	8) Is an appearance before the Board being scheduled?	9) Name of Case Advisor(s), if required:
☒ Open Session ☐ Closed Session	☐ Yes (Fill out Board Appearance Request) ☒ No	

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

The Department has developed a preliminary list of proposed revisions to the Plumbing Code. The Department invites the Plumbing Code Advisory Committee to provide recommendations on the proposed issues, as well as additional recommendations for Department consideration.

11) Authorization

Signature of person making this request	Date
Melinda R. Allen	09/17/2018
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.

Plumbing, Incorporated Standards Tables - SPS 381.20-1 to 381.20-13

Table 381.20-1

AHAM	Association of Home Appliance Manufacturers
	~~20 North Wacker Drive~~ 1111 19th Street, NW Suite 402
1	~~Chicago, Illinois 60606~~ Washington, DC 20036
	Phone: 202-872-5955
	~~Web page~~ Website: www.aham.org

Standard Reference Number	Title
DW-1-~~2005~~ 2010	Household Electric Dishwashers (A newer version is currently under revision.)

Table 381.20-2

ANSI	American National Standards Institute, Inc.
	~~1430 Broadway~~ 25 West 43rd Street, Fourth Floor
2	New York, New York 10018
	Phone: 212-642-4900
	~~Web page~~ Website: www.ansi.org

Standard Reference Number	Title
1. Z21.22-~~99 (R 2004)~~ 2015	Relief Valves for Hot Water Supply Systems
~~2. Z21.22a-2000~~	~~Relief Valves for Hot Water Supply Systems (Addenda 2000)~~ (Repeal)
~~3. Z21.22b-2001~~	~~Relief Valves for Hot Water Supply Systems (Addenda 2001)~~ (Repeal)
~~4. Z124.1.2-2005~~	~~Plastic Bath Tub and Shower Units~~ (Repeal)
~~5. Z124.3-2005~~	~~Plastic Lavatories~~ (Repeal)
~~6. Z124.4-2006~~	~~Plastic Water Closet Bowls and Tanks~~ (Repeal)
~~7. Z124.6-97~~	~~Plastic Sinks~~ (Repeal)
~~8. Z124.9-2004~~	~~Plastic Urinal Fixtures~~ (Repeal)
CSA B45.5-17/IAPMO Z124-2017	Plastic plumbing fixtures
(This edition replaces numbers 4 to 8.)	(Add to Table 381.20-7e?)

Table 381.20-3 (Repeal)

~~**ARI AHRI**~~	~~Air-Conditioning, Heating, and Refrigeration Institute~~
	~~1815 North Fort Myer Drive 2111 Wilson Boulevard, Suite 500~~
~~0~~	~~Arlington, Virginia 22209 22201~~
	~~Phone: 703-524-8800~~
	~~Web page Website: www.ari.org ahrinet.org~~

Standard Reference Number	Title
~~ARI-1010-2002~~	~~Self-Contained Mechanically-Refrigerated Drinking-Water Coolers~~ (Repeal)
	(This standard has been withdrawn.)

Table 381.20-3e

ASME	American Society of Mechanical Engineers
	~~345 East 47th Street~~ Two Park Avenue
27	New York, New York ~~10017~~ 10016-5990
	Phone: 800-843-2763
	~~Web page~~ Website: www.~~infocentral~~@asme.org

Standard Reference Number		Title
1.	A112.1.2-~~2004~~ 2012	Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors)
1e.	A112.1.3-~~00~~ 2000	Air-gap Fittings for Use with Plumbing Fixtures, Appliances, and Appurtenances
2.	A112.6.1M-97 (R ~~2002~~2012)	Floor-Affixed Supports for Off-the-Floor Plumbing Fixtures for Public Use
2a.	A112.6.3-2001 (R ~~2007~~2016)	Floor and Trench Drains
3.	A112.14.1-03 (R 2008 2012)	Backwater Valves
4.	A112.18.1-~~2005~~ 2012	Plumbing Supply Fittings (See CSA B125.1-2012)
5.	A112.19.1~~M-94 (R 2000)~~ 2013	Enameled Cast Iron and Enameled Steel Plumbing Fixtures (This standard is a consolidation and revision of #5, # 11, CAN/CSA-B45.2-02, and CAN/CSA-B45.3-02.)
~~5m.~~	~~A112.19.1M-1994~~	~~Errata November 1994 to Enameled Cast Iron Plumbing Fixtures~~ (Repeal)

~~6.~~	~~A112.19.1M-1994~~	~~Supplement 1-1998 to Enameled Cast Iron Plumbing Fixtures~~ (Repeal)
~~7.~~	~~A112.19.1M-1994~~	~~Supplement 2-2000 to Enameled Cast Iron Plumbing Fixtures~~ (Repeal)
8.	A112.19.2-~~2003~~ 2013	~~Vitreous~~ China Plumbing Fixtures ~~and Hydraulic Requirements for Water Closets and Urinals~~ (This Standard is a consolidation and revision of A112.19.2-2003, A112.19.6-1995, A112.19.9M-1991, and A112.19.13-2001. It also replaces CAN/CSA-B45.1-02. It includes 2013 Update No. 1.)
9.	A112.19.3-~~2000~~ 2017 ~~(R 2004)~~	Stainless Steel Plumbing Fixtures (Designed for Residential Use)
~~10.~~	~~A112.19.3-2002~~	~~Supplement 1-2002 to Stainless Steel Plumbing Fixtures (Designed for Residential Use)~~
~~11.~~	~~A112.19.4-94 (R 2004)~~	~~Porcelain Enameled Formed Steel Plumbing Fixtures~~ (Repeal) (Incorporated in #5 above.)
12.	A112.19.5-~~2005~~ 2011 (R 2016)	~~Trim~~ Flush Valves and Spuds for Water-Closets, Urinals, and ~~Bowls,~~ Tanks~~, and Urinals~~
13.	B1.20.1-~~83 (R 2006)~~ 2013	Pipe Threads, General Purpose, Inch ~~(Inch)~~
14.	B16.1-~~2005~~ 2015	Gray Iron Pipe Flanges and Flanged Fittings (Classes 25, 125, and 250)
15.	B16.3-~~1998 (R 2006)~~ 2016	Malleable Iron Threaded Fittings (Classes 150 and 300)
16.	B16.4-~~2006~~ 2016	Gray Iron Threaded Fittings (Classes 125 and 250)
17.	B16.5-~~2003~~ 2017	Pipe Flanges and Flanged Fittings: NPS 1/2 ~~Through~~ through NPS 24 Metric/Inch Standard ~~(and addenda)~~
18.	B16.9-~~2003~~ 2012	Factory-Made Wrought Buttwelding Fittings
19.	B16.11-~~2005~~ 2016	Forged Fittings, Socket–Welding and Threaded
20.	B16.12-~~1998~~ 2009 (R ~~2006~~ 2014)	Cast Iron Threaded Drainage Fittings
21.	B16.15-~~85~~ 2013 ~~(R1994)~~	Cast Bronze Threaded Fittings (Classes 125 and 250)
22.	B16.18-~~2001~~ 2012 ~~(R 2005)~~	Cast Copper Alloy Solder Joint Pressure Fittings
23.	B16.22-~~2001~~ 2013 ~~(R 2005)~~	Wrought Copper and Copper Alloy Solder Joint Pressure Fittings
24.	B16.23-~~2002~~ 2016 ~~(R 2006)~~	Cast Copper Alloy Solder Joint Drainage Fittings: DWV
25.	B16.24-~~2001~~ 2016	Cast Copper Alloy Pipe Flanges, ~~and~~ Flanged Fittings, and Valves~~:~~ ~~Class~~ (Classes 150, 300, 400, 600, 900, 1500, and 2500)
26.	B16.26-~~2006~~ 2013	Cast Copper Alloy Fittings for Flared Copper Tubes
~~27.~~	~~B16.28-94~~	~~Wrought Steel Buttwelding Short Radius Elbows and Returns~~ (Repeal) (This standard has been withdrawn and incorporated into #18 - B16.9.)
28.	B16.29-~~2001~~ 2017	Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings - DWV
29.	B16.42-~~1998~~ 2016 ~~(R 2006)~~	Ductile Iron Pipe Flanges and Flanged Fittings (Classes 150 and 300)
~~30.~~	~~B16.45-1998 (R 2006)~~	~~Cast Iron Fittings for Sovent® Drainage Systems~~ (Repeal) (This standard has been withdrawn.)
31.	B36.19M-2004 (R2015)	Stainless Steel Pipe

Table 381.20-4

ASSE	American Society of Sanitary Engineering ~~P.O. Box 9712~~ 18927 Hickory Creek Drive, Suite 220 ~~Bay Village, Ohio 4414~~ Mokena, Illinois 60448 Phone: ~~440-835-3040~~ 708-995-3019 ~~Web page~~ Website: www.asse-plumbing.org
24	

Standard Reference Number		**Title**
1.	1001-~~2002~~ 2017	Atmospheric Type Vacuum Breakers
2.	1002-~~1999~~ 2015	Anti-siphon Fill Valves ~~(Ballcocks)~~ for ~~Gravity~~ Water Closet ~~Flush~~ Tanks
3.	1003-~~2001~~ 2009 (errata)	Water Pressure Reducing Valves for Domestic Water Distribution Systems
4.	1004-~~1990~~ 2017	Commercial Dishwashing Machines
5.	1006-~~1989~~ 1986	Residential Use (Household) Dishwashers (inactive and no longer carries ANSI approval.)
6.	1007-1992	Home Laundry Equipment (inactive)
7.	1008-2006	Plumbing Aspects of Residential Food Waste Disposer Units
8.	1009-1990	Commercial Food Waste Grinder Units (inactive)
9.	1010-2004	Water Hammer Arresters
10.	1011-2004 (errata)	Hose Connection Vacuum Breakers
11.	1012-~~2002~~ 2009	Backflow Preventer with Intermediate Atmospheric Vent

12.	1013-~~2005~~ 2011	Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection ~~Principle~~ Backflow Preventers
13.	1014-2005	Backflow Prevention Devices for Hand-Held Showers
14.	1015-~~2005~~ 2011	Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies
15.	1016-~~2005~~ 2017	Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations
15m.	1017-~~2003~~ 2009	Temperature Actuated Mixing Valves for Hot Water Distribution Systems
16.	1018-2001	Trap Seal Primer Valves — Potable Water Supplied
17.	1019-~~2004~~ 2011 (R2016)	~~Vacuum Breaker Wall Hydrants, Freeze Resistant Automatic Draining Type~~ Wall Hydrant with Backflow Protection and Freeze Resistance
18.	1020-2004	Pressure Vacuum Breaker Assembly
18m.	1021–2001	Drain Air Gaps for Domestic Dishwasher Applications (inactive)
19.	1022-~~2003~~ 2017	Backflow Preventer for Beverage Dispensing Equipment
20.	1023-1979	Hot Water Dispensers, Household Storage Type, Electrical
20m.	1035-~~2002~~ 2008	Laboratory Faucet Backflow Preventers
21.	1037-~~1990~~ 2015	Pressurized Flushing Devices ~~(Flushometers)~~ for Plumbing Fixtures
22.	1047-~~2005~~ 2011	Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies
23.	1048-~~2005~~ 2011	Double Check Detector Fire Protection Backflow Prevention Assemblies (Inactive?) International fibreboard box code (2011 version is by ASSE.2016 Standard is by Standards Australia.)
23g.	1050-2009 (NEW)	Stack Air Admittance Valves for Sanitary Drainage Systems
23r.	1051-2009 (NEW)	Individual and Branch Type Air Admittance Valves for Sanitary Drainage Systems
24.	1052-~~2004~~ 2016	Hose Connection Backflow Preventers
24e.	1053-~~2005~~ 2004	Dual Check Backflow Preventer Wall Hydrant Freeze Resistant Type
25.	1055-~~2009~~ 2016	Chemical Dispensing Systems
26.	1056-~~2001~~ 2013	Spill Resistant Vacuum Breakers~~s~~ Assemblies
26m.	1057-2012 (NEW)	Freeze Resistant Sanitary Yard Hydrants with Backflow Protection
26e.	1066-1997	Individual Pressure Balancing In-Line Valves for Individual Fixture Fittings
27.	5013-~~2009~~ 2015[a]	Minimum Performance Requirements for Testing Reduced Pressure Principle Backflow Preventers (RP) and Reduced Pressure Principle Fire Protection Backflow Preventers (RPF)
28.	5015-~~2009~~ 2015[a]	Minimum Performance Requirements for Testing Double Check Backflow Prevention Assemblies (DC) and Double Check Fire Protection Backflow Prevention Assemblies (DCF)
29.	5020-~~2009~~ 2015[a]	Minimum Performance Requirements for Testing a Pressure Vacuum Breaker Assembly
30.	5047-~~2009~~ 2015[a]	Minimum Performance Requirements for Testing Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies (RPDF)
31.	5048-~~2009~~ 2015[a]	Minimum Performance Requirements for Testing Double Check Detector Fire Protection Backflow Prevention Assemblies (DCDF)
32.	5056-~~2009~~ 2015[a]	Minimum Performance Requirements for Testing Spill Resistant Vacuum Breaker
33.	5110-2015 [a] (NEW)	Backflow Prevention Assembly Testers (Recognition, not mandate)
34.	5120-2015 [a] (NEW)	Cross-Connection Control Surveyors (Recognition, not mandate)

[a] Standard is contained in the ASSE 5000 Series of standards.

Table 381.20-5

ASTM 88	ASTM International 100 Barr Harbor Drive West Conshohocken, Pennsylvania 19428-2959 Phone: (610) 832-~~9585~~ 9500 ~~Web page~~ Website: www:astm.org
Standard Reference Number	**Title**
1. A53-02/A53M-12	Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Seamless, Specification for

2.	A74-~~06~~ 16	Cast Iron Soil Pipe and Fittings, Specification for
3.	A123/A123M-~~02~~ 15	Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products, Specification for
4.	A270-~~03a~~/A270M-15	Seamless and Welded Austenitic and Ferritic/Austenitic Stainless Steel Sanitary Tubing, Specification for
5.	A403/A403M-~~07~~ 16	Wrought Austenitic Stainless Steel Piping Fittings, Specification for
6.	A450/A450M-~~04a~~ 15	Carbon~~, Ferritic Alloy, and Austenitic~~ and Low Alloy Steel Tubes
7.	A888-~~07a~~ 15	Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent ~~Pipe~~ Piping Applications, Specifications for
8.	B32-~~04~~ 08 (2014)	Solder Metal
9.	B42-~~02~~^{E1} 15A	~~Pipe,~~ Seamless Copper Pipe, Standard Sizes
10.	B43-~~98~~ 15	Seamless Red Brass Pipe, Standard Sizes, Specification for
11.	B88-~~03~~ 16	Seamless Copper Water Tube, Specification for
11m.	B88M-~~05~~ 16	Seamless Copper Water Tube, (Metric) Specification for
12.	B152/B152M-~~06a~~ 13	Copper Sheet, Strip, Plate, and Rolled Bar, Specification for
13.	B251/B251M-~~02~~^{E1} 10	~~Tube,~~ Wrought Seamless Copper and Copper-Alloy Tube
14.	B302-~~02~~ 12	Threadless Copper Pipe, Specification for
15.	B306-~~02~~ 13	Copper Drainage Tube (DWV), Standard Specifications for
15m.	B828-~~02~~ 16	Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings, Practice for
16.	C14-~~07~~ 15A	Nonreinforced Concrete Sewer, Storm Drain, and Culvert Pipe, Specification for
17.	C14M-~~07~~ 15A	Nonreinforced Concrete Sewer, Storm Drain, and Culvert Pipe, (Metric) Specification for
18.	C33/C33M-~~03~~ 16E1	Concrete Aggregates, Specification for
19.	C76-~~07~~ 16	Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe, Specification for
20.	C76M-~~07~~ 16	Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe, (Metric) Specifications for
21.	C425-04 (2013)	Compression Joints for Vitrified Clay Pipe and Fittings, Specification for
22.	C443-~~07~~ 12	Specification for Joints for Circular Concrete Sewer and Culvert Pipe and Manholes, Using Rubber Gaskets
22e.	C443M-~~07~~ 12	Specification for Joints for Circular Concrete Sewer and Culvert Pipe and Manholes, Using Rubber Gaskets (Metric)
22m.	C507/C507M-~~07~~ 16	Reinforced Concrete Elliptical Culvert, Storm Drain, and Sewer Pipe, (Metric) Specifications for
23.	C564-~~03a~~ 14	Rubber Gaskets for Cast Iron Soil Pipe and Fittings, Specification for
24.	C700-~~07~~ 13	Vitrified Clay Pipe, Extra Strength, Standard Strength, and Perforated, Specification for
24e.	C877/C877M-~~02~~^{E} 16	External Sealing Bands for Concrete Pipe, Manholes, and Precast Box Sections, (Metric) Standard Specifications for
24h.	C923-07 (2013)EI	Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes, and Laterals, Specification for
24m.	C990/C990M-~~06~~ 09 (2014)	Joints for Concrete Pipe, Manholes, Precast Box Sections Using Preformed Flexible Joint Sealants, Specifications for
24s.	C1306/C1306M-~~05a~~ 08 (2016) E1	Hydrostatic Pressure Resistance of a Liquid-Applied Waterproofing Membrane, Standard Test Method for
25.	~~D1527-99 (R 2005)~~	~~Acrylonitrile-Butadiene-Styrene (ABS), Schedules 40 and 80~~ (Repeal) (This standard was withdrawn in 2014.)
26.	D1785-~~06~~ 15	Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120, Specification for
~~27.~~	~~D2104-03~~	~~Standard Specifications for Polyethylene (PE) Plastic Pipe, Schedule 40~~ (Repeal) (This standard was withdrawn in 2010.)
28.	D2235-04 (2016)	Standard Specifications for Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings
29.	D2239-~~03~~ 12A	Polyethylene (PE) Plastic Pipe (SIDR-PR) Based on Controlled Inside Diameter, Specification for
30.	D2241-~~05~~ 15	Standard Specification for Poly (Vinyl Chloride) (PVC) ~~Plastic~~ Pressure-Rated Pipe (SDR-Series)
31.	~~D2282-99 (R 2005)~~	~~Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe (SDR-PR), Specification for~~ (This standard was withdrawn in 2007.) (Repeal)
32.	D2321-~~05~~ 14E1	Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications, Practice for
~~33.~~	~~D2447-03~~	~~Polyethylene (PE) Plastic Pipe, Schedules 40 and 80, Based on Outside Diameter, Specification for~~ (This standard was withdrawn in 2010.) (Repeal)

34.	D2464-~~06~~ 15	Threaded Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80, Specification for
35.	D2466-~~06~~ 15	Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40, Specification for
36.	D2467-~~06~~ 15	Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80, Specification for
~~37.~~	~~D2468-96a~~	~~Acrylonitrile-Butadiene-Styrene (ABS), Plastic Pipe Fittings, Schedule 40, Specification for~~ (This standard was withdrawn in 2003.) (Repeal)
38.	D2564-~~04~~^{E1} 12	Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Systems, Specification for
39.	D2609-~~02~~ 15	Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe, Specification for
40.	D2657-07 (2015)	Heat Fusion Joining of Polyolefin Pipe and Fittings, Standard Practice of
41.	D2661-~~06~~ 14	Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe and Fittings, Specification for
43.	D2665-~~07~~ 14	Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings, Specification for
46.	D2680-01 (2014)	Acrylonitrile-Butadiene-Styrene (ABS) and Poly (Vinyl Chloride) (PVC) Composite Sewer Piping, Specification for
47.	D2683-~~04~~ 14	Socket-Type Polyethylene Fittings for Outside Diameter-Controlled Polyethylene Pipe and Tubing, Specification for
48.	D2729-~~03~~ 11	Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings, Specification for
49.	D2737-~~03~~ 12A	Polyethylene (PE) Plastic Tubing, Specification for
~~50.~~	~~D2751-05~~	~~Acrylonitrile-Butadiene-Styrene (ABS) Sewer Pipe and Fittings, Specification for~~ (This standard was withdrawn in 2014.) (Repeal)
51.	D2774-~~04~~^{E1} 12	Underground Installation of Thermoplastic Pressure Piping, Standard Practice for
52.	D2846/D2846M-~~06~~ 14	Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems, Specification for
53.	D2852-~~95~~ 16	Styrene-Rubber (SR) Plastic Drain Pipe and Fittings, Specification for
54.	D2855-~~96~~ 15	Making Solvent-Cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings, Practice for
55.	D3034-~~06~~ 16	Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings, Specification for
56.	D3035-~~06~~ 15	Polyethylene (PE) Plastic Pipe (~~S~~DR-PR) Based on Controlled Outside Diameter, Specification for
57.	D3138-~~04~~ 16	Solvent Cements for Transition Joints Between Acrylonitrile-Butadiene-Styrene (ABS) and Poly(Vinyl Chloride) (PVC) Non-Pressure Piping Components, Specifications for
~~59.~~	~~D3140-90~~	~~Flaring Polyolefin Pipe and Tubing, Practice for~~ (Repeal) (This standard was withdrawn in 1999.)
60.	D3212-~~96a~~ 07 (R ~~2003~~ 2013)	Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals, Specification for
61.	D3261-~~03~~ 16	Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing, Specification for
62.	D3311-~~06a~~ 11 (2016)	Drain, Waste, and Vent (DWV) Plastic Fittings Patterns, Specification for
63.	D4068-~~01~~ 17	Chlorinated Polyethylene (CPE) Sheeting for Concealed Water-Containment Membrane, Standard Test Method for
64.	D4491/D4491M-~~99a (R 2004)~~ 17	Water Permeability of Geotextile by Permittivity, Standard Test Method for
65.	D4533/D4533M-~~04~~ 15	Trapezoid Tearing Strength of Geotextiles, Standard Test Method for
66.	D4632/D4632M-~~91 (R 2003)~~ 15A	Grab Breaking Load and Elongation of Geotextiles, Standard Test Method for
67.	D4751-~~04~~ 16	Determining ~~the~~ Apparent Opening Size of a Geotextile, Standard Test Method for
68.	D4833/D4833M-~~00~~ 07 (2013)^{E1}	Index Puncture Resistance of ~~Geotextile,~~ Geomembranes~~,~~ and Related Products, Standard Test Methods for
69.	F402-05 (2012)	Safe Handling of Solvent Cements, Primers, and Cleaners Used for Joining Thermoplastic Pipe and Fittings, Practice for
~~70.~~	~~F405-05~~	~~Corrugated Polyethylene (PE) Tubing and Fittings, Specification for~~(Repeal) (This standard was withdrawn in 2015.)
71.	F409-~~02~~ 17	Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings, Specification for
72.	F437-~~06~~ 15	Threaded Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80, Specification for
73.	F438-~~04~~ 15	Socket-Type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule

		40, Specification for
74.	F439-~~06~~ 13	Socket-Type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80, Specification for
75.	F441/F441M-~~02~~ 15	Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80, Specification for
76.	F442/F442M-~~99 (R 2005)~~ 13E1	Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe (SDR-PR), Specification for
77.	F477-~~07~~ 14	Elastomeric Seals (Gaskets) for Joining Plastic Pipe, Specification for
~~78.~~	~~F492-95~~	~~Propylene and Polypropylene (PP) Plastic-Lined Ferrous Metal Pipe Fittings~~(Repeal) (This standard was withdrawn in 2004.)
79.	F493-~~04~~ 14	Solvent Cements for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings, Specification for
80.	F628-~~06~~ ~~E1~~ 12E2	Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe with a Cellular Core, Specification for
81.	F656-~~02~~ 15	Primers for Use in Solvent Cement Joints of Poly (Vinyl Chloride) (PVC) Plastic Pipe and Fittings, Specification for
81e.	F679-~~06a~~ 16	Poly (Vinyl Chloride) (PVC) Large-Diameter Plastic Gravity Sewer Pipe and Fittings
~~81m.~~	~~F789-95a~~	~~Type PS-46 Poly (Vinyl Chloride) (PVC) Plastic Gravity Flow Sewer Pipe and Fittings~~ (This standard was withdrawn in 2004.) (Repeal)
81s.	F794-03 (2014)	Poly (Vinyl Chloride) (PVC) Profile Gravity Sewer Pipe and Fittings Based on Controlled Inside Diameter
82.	F810-~~07~~ 12	Smoothwall Polyethylene (PE) Pipe for Use in Drainage and Waste Disposal Absorption Fields, Specification for
84.	F876-~~06~~ 15a	Crosslinked Polyethylene (PEX) Tubing, Specification for
85.	F877-~~07~~ 11A	Crosslinked Polyethylene (PEX) Plastic Hot- and Cold-Water Distribution Systems, Specification for
86.	F891-~~04~~ 16	Coextruded Poly (Vinyl Chloride) (PVC) Plastic Pipe With a Cellular Core, Specification for
87.	F949-~~06a~~ 15	Poly (Vinyl Chloride) (PVC) Corrugated Sewer Pipe With a Smooth Interior and Fittings, Specification for
88.	F1281-~~07~~ 11	Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene (PEX-AL-PEX) Pressure Pipe, Specification for
89.	F1282-~~06~~ 17	Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe, Specification for
90.	F1336-~~07~~ 15	Poly (Vinyl Chloride) (PVC) Gasketed Sewer Fittings, Specification for
91.	F1807-~~07~~ 17	Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing, Specification for
92.	F1866-~~07~~ 13	Poly (Vinyl Chloride) (PVC) Plastic Schedule 40 Drainage and DWV Fabricated Fittings, Specifications for

Table 381.20-6

AWS	American Welding Society ~~550 N.W. LeJune Road~~ 8669 NW 36 Street, #130 Miami, Florida ~~33126~~ 33166-6672 Phone: 800-443-9353 ~~Web page~~ Website: www.aws.org~~/w/a~~
Standard Reference Number	**Title**
AWS.A5.8M/A5.8; ~~2004~~ 2011-AMD 1	Filler Metals for Brazing and Braze Welding, Specification for

Table 381.20-7

AWWA 17	American Water Works Association ~~Data Processing Department~~ 6666 West Quincy Avenue Denver, Colorado 80235 Phone: ~~303-794-7711~~ 800-926-7337 ~~Web page~~ Website: www.awwa.org

Standard Reference Number		Title
1.	C110/A21.10-~~03~~-12	~~American National Standard for~~ Ductile-Iron and Gray-Iron Fittings ~~for Water~~
2.	C111/A21.11-~~07~~ 17	~~American National Standard for~~ Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings
3.	C115/A21.15-~~05~~-11	~~American National Standard for~~ Flanged Ductile-Iron Pipe with Ductile-~~Type~~ Iron or Gray-Iron ~~Pipe~~ Threaded Flanges
4.	C151/A21.51-~~02~~-17	Ductile-Iron Pipe, Centrifugally Cast, for Water
5.	C153/A21.53-~~06~~-11	~~American National Standard for~~ Ductile-Iron Compact Fittings~~, 3 in. through 16 in., for Water and Other Liquids~~
5c.	C220-~~2007~~ 12	Stainless–Steel Pipe, ½ in. (13mm) and Larger
5e.	C651-~~05~~ 14	Disinfecting Water Mains~~, Disinfecting~~
6.	C700-~~02~~ 15	Cold-Water Meters — Displacement Type, ~~with Bronze~~ Metal Alloy Main Case ~~(w/ 1991 Addendum)~~
7.	C701-~~07~~ 15	Cold-Water Meters, ~~—~~Turbine Type, for Customer Service
8.	C702-~~01~~ 15	Cold-Water Meters — Compound Type
9.	C704-~~02~~ 15	~~Cold-Water~~ Propeller-Type Meters ~~— Propeller Type~~ for ~~Main Line~~ Waterworks Applications
~~10.~~	~~C706-96 (R 05)~~	~~Cold-Water Meters, Direct-Reading, Remote-Registration Systems for~~ (Repeal) (This standard was withdrawn.)
11.	C707-~~05~~ 10 (R2016)	~~Cold-Water Meters,~~ Encoder-Type~~,~~ Remote-Registration Systems for Cold-Water Meters
12.	C708-~~05~~ 15	Cold-Water Meters — Multi-Jet Type
13.	C710-~~02~~ 15	Cold-Water Meters, Displacement Type — Plastic Main
14.	C900-~~07~~ 16	Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings 4-inch to ~~12~~60-inch (100mm Through ~~300~~ 1,500 mm) ~~for Water Transmission and Distribution~~
15.	C901-~~02~~ 08	Polyethylene (PE) Pressure Pipe and Tubing, 1/2 in. (13mm) Through 3 in. (76mm), for Water Service
16.	C906-~~07~~ 15	Polyethylene (PE) Pressure Pipe and Fittings, 4 in. through ~~63~~ 65 in. (100 mm through 1650 mm), for ~~Water Distribution~~ Waterworks

Table 381.20-7e

CAN/CSA 5	Canadian Standards Association 178 Rexdale Boulevard ~~Rexdale (~~Toronto~~)~~, Ontario~~,~~ Canada M9W 1R3 Phone: 800-463-6727 ~~Web page~~ Website: www.~~csa.ca~~ csagroup.org

Standard Reference Number	Title
~~1. B64.1.1-07~~	~~Atmospheric Vacuum Breakers~~ (Repeal)
~~2. B64.1.2-07~~	~~Pressure Vacuum Breakers~~(Repeal)
~~3. B64.1.3-07~~	~~Spill Resistant Vacuum Breakers~~(Repeal)
~~4. B64.2-07~~	~~Hose Connection Vacuum Breakers~~(Repeal)
~~5. B64.2.2-07~~	~~Hose Connection Vacuum Breakers with Automatic Draining Feature~~(Repeal)
~~6. B64.3-07~~	~~Dual Check Valve Backflow Preventers with Atmospheric Port~~(Repeal)
~~7. B64.3.1-07~~	~~Dual Check Valve Backflow Preventers with Atmospheric Port for Carbonators~~(Repeal)
~~8. B64.4-07~~	~~Reduced Pressure Principle Backflow Preventers~~(Repeal)
~~9. B64.4.1-07~~	~~Reduced Pressure Principle Backflow Preventers for Fire Protection Systems~~(Repeal)
~~10. B64.5-07~~	~~Double Check Valve Backflow Preventers~~(Repeal)
~~11. B64.5.1-07~~	~~Double Check Valve Backflow Preventers for Fire Protection Systems~~(Repeal)

~~12.~~	~~B64.7-07~~ B64 Series-11 (R2016)	~~Laboratory Faucet Vacuum Breakers~~(Repeal) Vacuum breakers, spill-resistant pressure type (SRPVB) (Numbers 1 to 12 are superseded by CSA B64-11 series.)
13.	CSA B125.1-~~05~~ 12	Plumbing Supply Fittings
14.	B125.3-~~05~~ 12	Plumbing Fittings
~~14e.~~	~~B125.3-05~~	~~Plumbing Fittings – Update No. 1 November 2006~~ (Repeal)
~~14m.~~	~~B125.3-05~~	~~Plumbing Fittings – Update No. 2 November 2007~~ (Repeal)
~~15.~~	~~B137.9-98~~	~~Polyethylene / Aluminum / Polyethylene Composite Pressure Pipe Systems~~ (Repeal)
~~16.~~	~~B137.10-98~~	~~Crosslinked Polyethylene /Aluminum / Crosslinked Polyethylene Composite Pressure Pipe Systems~~ (Repeal)
16m.	B137 Series – 6th edition, 2017	Thermoplastic pressure piping compendium (Numbers 15 and 16 are superseded by CSA B137-17 series.)
~~17.~~	~~B181.1-06~~	~~Acrylonitrile-butadiene-styrene (ABS) drain, waste, and vent pipe and pipe fittings~~ (Repeal)
~~18.~~	~~B181.2-06~~	~~Polyvinylchloride (PVC) and chlorinated polyvinylchloride (CPVC) drain, waste, and vent pipe and pipe fittings~~ (Repeal)
18m.	B1800 – 5th Edition, 2015	Thermoplastic non-pressure piping compendium (Numbers 17 and 18 are superseded by CSA B1800.)

Table 381.20-8

CISPI 2		Cast Iron Soil Pipe Institute ~~5959 Shallowford Road, Suite 419~~ 2401 Fieldcrest Dr. ~~Chattanooga, Tennessee 37421~~ Mundelein, IL 60060 Phone: ~~423-892-0137~~ 212-864-2910 ~~Web page~~ Website: www.cispi.org
Standard Reference Number		**Title**
1.	301-~~05~~ 12	Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications, Standard Specification for
2.	310-~~04~~ 12	Coupling for Use in Connection with Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications, Specification for

Table 381.20-9

FMRC 0		Factory Mutual Research ~~Corp.~~ Corporation ~~1151 Boston-Providence Turnpike~~ 270 Central Avenue ~~Norwood, Massachusetts 02062~~ Johnston, RI 02919-4949 Phone: ~~800-320-6808~~ 401-275-3000 ~~Web page~~ Website: www.fmglobal.com
Standard Reference Number		**Title**
1680-January 1989		Couplings used in Hubless Cast Iron Systems for Drain, Waste or Vent, Sewer, Rainwater or Storm Drain Systems Above and Below Ground, Industrial/Commercial and Residential~~, January 1989~~

Table 381.20-10

NFPA 2		National Fire Protection Association ~~11 Tracy Drive~~ 1 Batterymarch Park ~~Avon~~ Quincy, MA ~~02322-9908~~ 02169-7471 Phone: ~~617-770-3000~~ 800-344-3555 ~~Web page~~ Website: www.nfpa.org
Standard Reference Number		**Title**
1.	NFPA 13D-~~2007~~ 2016	Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes, Standard for the
2.	NFPA 24-~~2007~~ 2016	Installation of Private Fire Service Mains and Their Appurtenances, Standard for the

Table 381.20-11

NSF 5	NSF ~~*International*~~ International 789 N. Dixboro Road P.O. Box 130140 Ann Arbor, Michigan ~~48113-0140~~ 48105 Phone: (800) 673-6275 ~~Web page~~ Website: www.nsf.org

Standard Reference Number		Title
1.	~~Standard~~ NSF 14-~~2007~~ 2016a	Plastic Piping System Components and Related Materials
2.	~~Standard~~ NSF 40-2013	Residential Wastewater Treatment Systems (POWTS)
3.	~~Standard~~ NSF 41-~~2005~~ 2016	Non-liquid Saturated Treatment Systems (POWTS)
4.	~~Standard~~ NSF 44-~~2004~~ 2016	Residential Cation Exchange Water Softeners
5.	~~Standard~~ NSF 51-~~2007~~ 2014	Food Equipment Materials
6.	~~Standard~~ NSF 61-~~2012~~ 2016	Drinking Water System Components — Health Effects
7.	~~Standard~~ NSF 372-~~2011~~ 2016	Drinking Water System Components — Lead Content

Table 381.20-12

STI/SPFA 1	Steel Tank Institute/Steel Plate Fabricators Association ~~570 Oakwood Road~~ 944 Donata Court Lake Zurich, Illinois 60047 Phone: ~~617-770-3000~~ 847-438-8265 ~~Web page~~ Website: www.steeltank.com

Standard Reference Number	Title
STI-P~~3~~3-2015	External Corrosion Protection of Underground Steel Storage Tanks, Specifications and Manual for~~, 1996 edition~~

Table 381.20-13

UL 0	Underwriters Laboratories Inc. 333 Pfingsten Road Northbrook, Illinois 60062 Phone: 847-272-8800 ~~Web page~~ Website: www.ul.com

Standard Reference Number		Title
1.	~~Standard~~ UL 58-1996	Steel Underground Tanks for Flammable and Combustible Liquids — Ninth Edition
2.	~~Standard~~ UL 1746-2007	External Corrosion Protection Systems for Steel Underground Storage Tanks — Third Edition

Table 382.30-1 Drainage Fixture Unit Values by Fixture Type			
Type of Fixture	**Non-Public Drainage Fixture Unit Value (dfu)[n]**	**Public Drainage Fixture Unit Value (dfu)**	**Minimum Trap Size (inches)**
Automatic Clothes Washers:			
Commercial-type pump discharge		4	2
Commercial-type gravity discharge		a	a
Residential-type pump discharge	3		2
Autopsy Table		b	b
Bathroom Group, includes: a water closet, lavatory, and a bathtub or shower	5		
Bathtubs, all types [c]	2	2	1 1/2
Bedpan Washer		6	2
Bidet	2	2	1 1/2
Bottle Cooler		1/2	1 1/4
Campsite Receptor		5	4
Cuspidor, fountain or dental		1	1 1/4
Dipper Well		1	1 1/4
Dishwasher, commercial-type		d	d
Dishwasher, residential-type	2	2	1 1/2
Drinking Fountain	1/2	1/2	1 1/4
Floor Drain:			
Emergency (regardless of size) [e]	1	1	f
2-inch	2	2	2
3-inch	3	3	3
4-inch	4	4	4
Larger than 4-inch	4	4	f
Garage Catch Basin	4	4	4
Garage Catch Basin receiving additional drains	6	6	4
Glass Filler		1/2	1 1/4
Glass Washer		2	1 1/2
Gravity flow condensate or drip trays discharging to a receptor, ¾" or smaller		1/4	g
Gravity flow condensate or drip trays discharging to a receptor, larger than ¾" to 1"		1/2	g
Gravity flow condensate or drip trays discharging to a receptor, larger than 1"		1	g
Health Care Fixtures:			
Clinic sink		6	NA
Exam/treatment sink		1	1 1/4
Laundry Tray, 1 or 2 compartment		2	1 1/2
Lavatory		1	1 1/4
Lavatory, multiple users, 2-3 per trap [h]		1	1½
Lavatory, multiple users, 4 or more per trap [h]		2	1½
Manufactured Home		11	NA
Shower Drain, based on total flow rate through shower heads and body sprays			
5.7 gpm or less	2	2	1½
Greater than 5.7 gpm to 12.3 gpm	3	3	2
Greater than 12.3 gpm to 25.8 gpm	5	5	3
Greater than 25.8 gpm to 55.6 gpm	6	6	4
Sinks:[i]			
Bar, residential		1	1¼
Breakroom (single compartment)		1	1 1/2
Breakroom (two compartment with or without food waste grinder)		2	1 1/2
Cup		1/2	1 1/4
Fountain or Bar, 4 compartments or less		3	1 1/2
Food Waste Grinder, commercial 2 HP or less		2	j

Food Waste Grinder, commercial 3 HP or more		3	j
Hand		1	1¼
Laboratory		2	1 1/2
Classroom		1	1 1/4
Pack or plaster		3	2
Residential, with or without food waste grinder		2	1 1/2
Restaurant, Scullery, pots and pans, 4 compartments or less		3	j
Food, rinsing, cleaning or thawing		3	2
Service Sink, Flushing Rim		6	3
Service Sink, 2-inch diameter or smaller [k]		2	2
Service Sink, 3-inch diameter or larger [k]		3	3
Shampoo Sink, barber or beauty parlor		2	1 1/2
Surgeon, wash up		3	1 1/2
Receptors of Indirect Wastes, gravity flow discharge:			
Emergency (regardless of size) [o]	1	1	f
1 1/4-inch receptor outlet diameter		1	1 1/4
1 1/2-inch receptor outlet diameter		2	1 1/2
2-inch receptor outlet diameter		3	2
3-inch receptor outlet diameter		4	3
4-inch receptor outlet diameter		6	4
Larger than 4-inch receptor outlet diameter		8	j
Commercial-type laundry receptor (up to 75 pounds total washer capacity)		4	3
Commercial-type laundry receptor (over 75 pounds up to 250 pounds total washer capacity)		6	4
Commercial-type laundry receptor (over 250 pounds total washer capacity)		8	4
Refrigerated food display case (any size)		2	
Sterilizers:			
Bedpan		4	2
Garbage can washer		3	3
Instrument or water		1	
Urinal (less than 1 gallon per flush)		1	j
Water Closet (1.6 gallons per flush or less)	3	4	m
Water Closet (greater than 1.6 gallons per flush)	4	6	m

NA = not applicable

[a.] Commercial-type gravity discharge clothes washers must discharge to a laundry receptor per SPS 382.33 (9) c. 3.

[b.] Trap size corresponds to the size of the drain outlet. Use the dfu value of the receptor serving the autopsy table.

[c.] Incudes foot, sitz, infant baths, and regular bathtubs with or without showers or whirlpool circulation piping.

[d.] Based on discharge rates and number of outlets, a minimum 4-inch diameter trap and drain pipe is recommended.

[f.] Trap size corresponds to the size of the drain outlet.

[g.] The combined dfu load of all drains discharging to a receptor shall not exceed the dfu value of the receptor. The dfu value of the receptor shall be used for sizing the DWV piping.

[h.] A multiple user lavatory includes fixtures such as washfountains, fountain wash sinks, combination lavatories, and similar fixtures used for handwashing by multiple people at one time.

[i.] Sinks not specified in this table shall be assigned 1 dfu for 1 1/4-inch tailpiece, 2 dfu for 1 1/2-inch tailpiece and 3 dfu for 2-inch tailpiece.

j. Trap size corresponds to the size of the drain outlet.

k. May be floor or wall outlet.

m. Trap size specified in referenced standards of s. SPS 384.20.

n. Any fixture that does not have a non-public dfu value listed and is used in a non-public setting shall use the public area dfu value.

o. An emergency receptor is a receptor that does not receive the discharge of any drain or indirect waste and that protects against damage from an accidental spill, overflow, or leakage.

Table 382.30-1

Drainage Fixture Unit Values By Fixture Type

Type of Fixture	Non-Public Drainage Fixture Units (dfu) [n]	Public Drainage Fixture Units (dfu)	Minimum Trap Size (inches)
Automatic Clothes Washers:			
Residential-~~style~~ type Pump Discharge	~~4~~ 3		2
Commercial~~style~~ type Pump Discharge		4	2
Commercial-~~style~~ type Gravity Discharge		a	a
Autopsy Table		~~h~~ b	~~h~~ b
Bathroom Group, includes a water closet lavatory, and a bathtub or shower	~~6~~ 5		
Bathtubs, all types [~~b~~ c]	2	2	1 1/2
Bedpan Washer		6	2
~~Beer Tap~~		~~1/2~~	~~1 1/4~~
Bidet	2	2	1 1/2
Bottle Cooler		1/2	1 1/4
Campsite Receptor		~~6~~ 5	4
~~Coffee Maker~~		~~1/2~~	~~1 1/4~~
Cuspidor, fountain or dental		1	1 1/4
~~Dipper Well~~		~~1~~	~~1 1/4~~
Dishwasher, commercial type		~~c~~ d	~~c~~ d
Dishwasher, residential type	2	2	1 1/2
Drinking fountain	1/2	1/2	1 1/4
~~Exhaust Hood Washer~~		~~4~~	~~2~~
Floor Drain			
Emergency (regardless of size) [e]	1	1	f
2 inch	2	2	2
3 inch	3	3	3
4 inch	4	4	4
Larger than 4 inch	4	4	~~d~~ f
Garage Catch Basin	4	4	4
Garage Catch Basin ~~with~~ receiving additional drains	6	6	4
Glass Filler		1/2	1 1/4
Glass Washer		2	1 1/2
Gravity flow condensate or drip trays discharging to a receptor, 3/4" or smaller		0.25	g
Gravity flow condensate or drip trays discharging to a receptor, larger than 3/4" to 1"		0.5	g
Gravity flow condensate or drip trays discharging to a receptor, larger than 1"		1	g
Health Care Fixtures:			
Clinic Sink		6	N/A

Exam / Treatment Sink		1	1 1/4
~~Sitz Bath~~		~~2~~	~~1 1/2~~
~~Ice Chest~~		~~1/2~~	~~1 1/2~~
Laundry Tray, 1 or 2 compartment	2	2	1 1/2
Lavatory	1	1	1 1/4
Lavatory, ~~combination~~ multiple ~~2 to 3~~ users, 2-3 per trap [h]		1	1 1/2
Lavatory, ~~combination~~ multiple ~~4 or more~~ users, 4 or more per trap [h]		2	1 1/2
Manufactured Home	11		N/A
~~Refrigerated Food Display Case~~		~~1~~	~~1~~
~~Shower Stall:~~			
~~Residential~~	~~2~~		~~2~~
~~Public, individual~~		~~2~~	~~2~~
~~Public, group~~		~~2 per shower~~	~~2~~
Shower Drain (based on total flow rate through shower heads and body sprays			
5.7 GPM or less	2	2	1 1/2
Greater than 5.7 GPM to 12.3 GPM	3	3	2
Greater than 12.3 GPM to 25.8 GPM	5	5	3
Greater than 25.8 GPM to 55.6 GPM	6	6	4
Sinks [i]			
Bar, residential	1		1 1/4
Breakroom (single compartment)		1	1 1/2
Breakroom (two compartment with or without food waste grinder)		2	1 1/2
Cup		1/2	1 1/4
~~Factory wash, per set of faucets~~		~~1~~	~~1 1/2~~
~~Fountain wash up~~		~~1~~	~~1 1/2~~
Fountain or Bar, 4 compartment or less		3	1 1/2
Food Waste Grinder, commercial 2 HP or less		2	~~f~~ j
Food Waste Grinder, commercial 3 HP or more		3	~~f~~ j
Hand		1	1 1/4
Laboratory		2	1 1/2
~~Laboratory, school~~		~~2~~	~~1 1/2~~
Classroom		1	1 1/4
Pack or Plaster		3	2
Residential, with or without food waste grinder	2		1 1/2
Restaurant, Scullery, pots and pans - 4 compartment or less		3	~~f~~ j
Food rinsing, cleaning or thawing		3	2
Service Sink, Flushing Rim		6	3
Service Sink, 2 inch diameter or smaller,		2	2

~~wall outlet~~ [k]			
Service Sink, 3 inch diameter or larger,		3	3
~~wall outlet~~ [k]			
~~Service Sink, 2 inch diameter, floor outlet~~		~~2~~	~~2~~
~~Service Sink, 3 inch diameter, floor outlet~~		~~3~~	~~3~~
Shampoo Sink, barber or beauty parlor		2	1 1/2
Surgeon, wash up		3	1 1/2
~~Wash fountain, circular or semi-circular~~		~~2~~	~~1 1/2~~
Receptors of Indirect Wastes, gravity flow discharge:			
Emergency (regardless of size) [o]	1	1	f
1 1/4 inch receptor outlet diameter		1	1 1/4
1 1/2 inch receptor outlet diameter		2	1 1/2
2 inch receptor outlet diameter		3	2
3 inch receptor outlet diameter		4	3
4 inch receptor outlet diameter		6	4
Larger than 4 inch receptor outlet diameter		8	~~f~~ j
Commercial-type Laundry receptor (up to 75 pounds total washer capacity)		4	3
Commercial-type Laundry receptor (over 75 up to 250 pounds total washer capacity)		6	4
Commercial-type Laundry receptor (over 250 pounds total washer capacity)		8	4
Refrigerated food display case (any size)		2	
~~Soda Dispensor~~		~~1/2~~	~~1 1/4~~
Sterilizers:			
Bedpan		4	2
Garbage can washer		3	3
Instrument or water		1	
~~Urinal~~		~~2~~	~~2~~
Urinal (less than 1 gallon per flush)		1	~~g~~ ~~m~~ j
~~Urinal - Assembly or School Facility (less than 1 gallon per flush)~~ [l]		~~2~~	
Urinal (1 gallon per flush or greater)		2	~~g~~ ~~m~~ j
~~Urinal - Assembly or School Facility (1 gallon per flush or greater)~~ [l]		~~3~~	
~~Water Closet~~	~~4~~	~~6~~	~~g~~ ~~m~~
Water Closet (1.6 gallons per flush or less)	3	4	~~g~~ m
~~Water Closet - Assembly or School Facility (1.6 gallons per flush or less)~~ [l]		~~6~~	~~g~~ ~~m~~
Water Closet (greater than 1.6 gallons per flush)	4	6	~~g~~ m
~~Water Closet - Assembly or School Facility (Greater than 1.6 gallons per flush)~~ [l]		~~8 6~~	~~g~~ ~~m~~

N/A = not applicable

a. Commercial-~~style~~ type gravity discharge clothes washers must discharge to a laundry receptor per SPS 382.33 (9)c.3

~~h~~ b. Trap size corresponds to the size of the drain outlet. Use the dfu value of the receptor serving the autopsy table.

~~b~~ c. Includes foot, sitz and infant baths and regular bathtubs with or without showers or whirlpool circulation piping

~~c~~ d. Based on discharge rates and number of outlets; a 4 inch diameter trap and drain pipe minimum recommended.

e. An Emergency Floor Drain is a floor drain that does not receive the discharge of any drain or indirect waste and that protects against damage from accidental spills, overflows and leakage.

~~d~~ f. Trap size corresponds to the size of the floor drain

g. The combined dfu load of all drains discharging to a receptor shall not exceed the dfu value of the receptor. The dfu value of the receptor shall be used for sizing the DWV piping.

h. A Multiple user lavatory ~~shall~~ include such fixtures as washfountains, fountain wash sinks, combination lavs and similar fixtures used for handwashing by multiple people at one time.

i. Sinks not specified in this table shall be assigned 1 dfu for 1 1/4" tailpiece, 2 dfu for 1 1/2" tailpiece and 3 dfu for 2" tailpiece.

~~f~~ j. Trap size corresponds to the size of the drain outlet

k. May be floor or wall outlet

~~l. Assembly / School buildings shall be as defined by the Wisconsin Commercial Building Code.~~

~~g~~ m. Trap size specified in referenced standards of s SPS 384.20.

n. Any fixture which does not have a non-public DFU value listed and is used in a non-public setting shall use the public area DFU value

o. An Emergency receptor is a receptor that does not receive the discharge of any drain or indirect waste and that protects against damage from accidental spills, overflows and leakage.

Wisconsin Department of Safety and Professional Services

Plumbing Code Advisory Committee Plumbing Code Rule Recommendations for SPS Chapters 381 to 387

(May include revisions to other associated chapters as identified in Scope Statement # 075-16.)

DRAFT – SUBJECT TO CHANGE

THIS DOCUMENT IS NOT A RULE DRAFT OR THE OFFICIAL MEETING MINUTES OF THE PLUMBING CODE ADVISORY COMMITTEE.

Meeting minutes and agendas may be viewed HERE.

Color-coding Key:

Shaded Coloring Key: Green=completed, Yellow=Action Item or needs additional committee discussion, Orange=Clarification needed.
Peach= Requires DPD and/or DIS follow-up. No committee action needed.
Colored Font Key: Red=Committee recommendations/actions, Blue=committee motions from most recent meeting, Green=DPD rule drafting notes or action items
(Rows in white have not yet been discussed by committee.)

SPS 305 LICENSES, CERTIFICATIONS, AND REGISTRATIONS						
NO.	**RULE PROVISION**	**ISSUE/REASON FOR CHANGE**	**PROPOSED BY**	**EXISTING LANGUAGE AND PROPOSED CHANGE**	**POTENTIAL IMPACT/COST**	**COMMENTS/STATUS**
1.	305.94 (3)	Inconsistency between statutes and code.	DPD	**Statutes:** 145.07(6) Applicants for examination for licensure as a journeyman plumber (restricted) *shall have completed one continuous year of work experience consisting of not less than 1,000 hours per year* and give evidence of completion of shop training and related instruction as the department by rule requires. **Administrative Rule:** SPS 305.94(3) QUALIFICATIONS FOR EXAMINATION. A person applying for a journeyman plumber-restricted service license examination shall have met all of the following: (a) ~~At least~~ Completed one continuous year of plumbing-related work experience consisting of not less than 1,000 hours per year ~~of plumbing-related work experience as a registered learner-restricted service~~.		Amend to align administrative rule with statute.

SPS 381 DEFINITIONS AND STANDARDS						
NO.	**RULE PROVISION**	**ISSUE/REASON FOR CHANGE**	**PROPOSED BY**	**EXISTING LANGUAGE AND PROPOSED CHANGE**	**POTENTIAL IMPACT/COST**	**COMMENTS/STATUS**
1.	381.01 (129m)	Need for enforcement	DIS, Amended by PAC	Create definition: "Imminent health hazard" means a significant threat or danger to health that is considered to exist when there is evidence sufficient to show that a product, practice,	n/a	*5/4/17 – Motion to adopt with amendments.*

SPS 381 DEFINITIONS AND STANDARDS						
NO.	**RULE PROVISION**	**ISSUE/REASON FOR CHANGE**	**PROPOSED BY**	**EXISTING LANGUAGE AND PROPOSED CHANGE**	**POTENTIAL IMPACT/COST**	**COMMENTS/STATUS**
				circumstance, or event creates a situation that requires immediate correction or cessation of operation to prevent injury or illness based on: (1) The number of potential injuries or illnesses; and (2) The nature, severity, and duration of the anticipated injury or illness.		
1a.	381.01 (195m)	Creates a definition as included in ch. 305.003 (60)	DIS	SPS 381.01 (195m) is created to read: (195m) "Process piping" means that piping which is separated from a water supply system or drain system by the ~~appropriate~~ acceptable methods or means specified under ch. SPS 382 and is part of a system used exclusively for refining, manufacturing, industrial or shipping purposes of every character and description. Discussion: A 2nd portion should be added that relates to adding an ingredient to a product. Process is not considered a plumbing fixture, which wouldn't require approval, non-potable (i.e. laundry, milling machine), water-using piece of equipment. Process could be potable or non-portable. Beginning and ending point of process. Action Items: DPD & DIS to look for definitions of "Industrial" and "process piping" and "potable processing". Tom to develop language for 2nd portion of definition relating to "ingredients". DPD Action Items completed: IPC and UPC do not contain definitions of the following terms. The below definitions were taken from other sources. "Industrial" means associated with manufacturing, factory, commercial, business, or trade. [Per ASME B31.3] Process piping means piping systems and their component parts, that are not building services or power piping systems, and that may be installed in petroleum refineries, chemical, pharmaceutical, textile, paper, semiconductor, and cryogenic plants, and related processing plants and terminals. "Potable water processing" means the act or process of removing impurities to make water more potable or useful, as by purifying, clarifying, or disinfecting.		*3/20/18 – Motion to table until language provided for 2nd part of definition.* 5/30/18 – DPD to search for definitions in IPC & UPC *8/7/18 - Motion to adopt definition.*
1a1.	381.01 (17e)	Consistency	DIS	"Backflow preventer" means any generic backflow prevention method, device, or assembly.	n/a	

SPS 381 DEFINITIONS AND STANDARDS						
NO.	**RULE PROVISION**	**ISSUE/REASON FOR CHANGE**	**PROPOSED BY**	**EXISTING LANGUAGE AND PROPOSED CHANGE**	**POTENTIAL IMPACT/COST**	**COMMENTS/STATUS**
1b.	381.01 (18)	Revise	DIS	"Backflow preventer with an intermediate atmospheric vent" means a ~~type of~~ cross connection control device ~~which consists of~~ having 2 independently ~~acting~~ operating check valves~~,~~ separated by an intermediate chamber with a means for automatically venting it to the atmosphere and can be installed in the horizontal, vertical up or vertical down orientations. The check valves are ~~internally~~ force~~–~~loaded to a normally closed position and the venting means is force loaded to ~~separated by an intermediate chamber with a means for automatically venting to atmosphere where the venting means is internally force–loaded to~~ a normally open position. ~~The terms "backflow preventer" or "dual check valve type with atmospheric port backflow preventer" has the same meaning as backflow preventer with intermediate atmospheric vent.~~	n/a	*8/7/18 - Motion to adopt definition as amended.*
1b1.	381.01 (39)	Amend to clarify for licensing parameters	DIS	"Building drain" means horizontal piping within or under a ~~building~~ building's foundation perimeter, installed below the lowest fixture or the lowest floor level from which fixtures can drain by gravity to the building sewer.	n/a	
1b2.	381.01 (44)	Amend to clarify for licensing parameters	DIS	"Building sewer" means that part of the drain system not within or under a ~~building which~~ building's foundation perimeter that conveys its discharge to a public sewer, private interceptor main sewer, private onsite wastewater treatment system, or other point of discharge or dispersal.	n/a	
1b3.	381.01 (65m)	Amend for consistency and to better differentiate between method, device, and assembly.	DIS	"Cross connection control assembly" means a ~~testable backflow preventer consisting of an arrangement of components~~ 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, a double check backflow preventer, a pressure vacuum breaker, and a spill resistant vacuum breaker.	n/a	
1b4.	381.01 (66)	Amend for consistency and to better differentiate between method, device, and assembly.	DIS	"Cross connection control device" means ~~any mechanical device which automatically prevents backflow from a contaminated source into a potable water supply system~~ a mechanical backflow preventer used to prevent backflow into a water supply system that does not require shut-off valves or a test cock or test cocks in meeting any specific standard, such as an atmospheric type vacuum breaker, a hose connection vacuum breaker, and a backflow preventer with an atmospheric vent.	n/a	
1b5.	381.01 (66m)	Create new definition for consistency and to better differentiate	DIS	"Cross connection control method" means a mechanism used to prevent backflow into a water supply system other than a backflow prevention device or backflow prevention assembly, such as an air gap and a vacuum breaker tee.	n/a	

SPS 381 DEFINITIONS AND STANDARDS						
NO.	**RULE PROVISION**	**ISSUE/REASON FOR CHANGE**	**PROPOSED BY**	**EXISTING LANGUAGE AND PROPOSED CHANGE**	**POTENTIAL IMPACT/COST**	**COMMENTS/STATUS**
		between method, device, and assembly.				
1c.	381.01 (73m)	Create new definition Commercial ASSE 1005, NSF 3 Residential NSF 184 Definition amended to align with terminology used in standards and to comply with drafting style rules.	DIS	"Commercial dishwashing machine" means a machine or appliance that is designed and constructed for use other than for household use. Amended to include sub-definitions of commercial- and residential-type under the main "Dishwashing machine" definition (as shown below): SPS 381.01 (73m) "Dishwashing machine" means a commercial- or residential-type appliance as defined in pars. a and b. (73m) (a) Commercial-type" means a machine or appliance that is designed and constructed for use other than a residential-type which mechanically washes, rinses, and sanitizes ~~dishware~~ dishes or utensils. (73m) (b) "Residential-type" means a home-type machine or appliance that mechanically ~~with the aid of water, automatically~~ washes, rinses, and ~~includes a drying process for dishware~~ dries dishes or utensils ~~by a chemical, mechanical, or electrical means,~~ and discharges to the plumbing drainage system. **Note:** A residential-type dishwasher may also be referred to as a household dishwasher but is not limited to the installation in a one- or 2-family dwelling. The intended use of the dishwasher dictates if the appliance is considered commercial or residential.		*8/7/18 – Motion to adopt as amended.*
1d.	381.01 (79)	Revise	DIS	"Double check backflow prevention assembly" means a ~~type of~~ cross connection control assembly ~~which is composed~~ consisting of 2 independently acting check valves, internally force~~–~~loaded to a normally closed position, 2 tightly closing shut−off valves that are properly located, and test cocks that are properly located. ~~located at each end of the assembly and fitted with test cocks. The term "double check valve backflow preventer" has the same meaning as double check backflow prevention assembly.~~ Discussion: Consider allowing ASSE 1015 standard to expand application beyond fire suppression to include application on low-hazard to add to the Table. Ryan to bring back verbiage.	n/a	*8/7/18 - Motion to adopt as amended.*
1d1.	381.01 (108s)	Amend to reflect terminology in the standard	DIS	"Freeze resistant sanitary yard hydrant with backflow protection" means a ~~type of~~ device, ~~serving as a hose bibb that has design features that minimize the risk of freezing, prevent groundwater contamination and provide backflow protection~~ typically installed with a portion below ground surface, to supply potable water without danger of damage to the device due to freezing, and to provide protection of	n/a	

SPS 381 DEFINITIONS AND STANDARDS						
NO.	**RULE PROVISION**	**ISSUE/REASON FOR CHANGE**	**PROPOSED BY**	**EXISTING LANGUAGE AND PROPOSED CHANGE**	**POTENTIAL IMPACT/COST**	**COMMENTS/STATUS**
				the potable water supply and ground water from contamination due to back-siphonage or back-pressure.		
1e.	381.01 (116)	Revise	DIS	(116) "Health care ~~and related~~ facility" means a hospital, nursing home, community−based residential facility, ~~county~~ ~~home, infirmary, inpatient mental health center, inpatient hospice,~~ or ambulatory surgery center~~, adult daycare center, end stage renal facility, facility for the developmentally disabled, institute for mental disease, urgent care center, clinic or medical office, residential care center for children and youth or school of medicine, surgery or dentistry~~ as defined in pars. (a) to (d). DPD: Renumber 380.01 (7m) to 381.01 (116) (a) [or repeal and create] to read: ~~(7m)~~ (116) (a) "Ambulatory surgery center" has the meaning given under 42 CFR 416.2. DPD: Renumber 381.01 (60e) to 381.01 (116) (b) and amend to read: ~~(60e)~~ (116) (b) "Community-based residential facility" or "CBRF" has the meaning ~~specified~~ given under s. 50.01 (1g), Stats. (116) (c) "Hospital" has the meaning given under s. 50.33 (2), Stats. DPD: Renumber 381.01 (163e) to 381.01 (116) (d) and amend to read: ~~(163e)~~ (116) (d) "Nursing home" has the meaning ~~specified~~ given under s. 50.01 (3), Stats. 8/7/2018 Discussion: This term aligns with the definition in the commercial building code as amended in the last code package. Based on discussion under item #1f., recommendation to consider definitions based on level of service.	n/a	*8/7/18 - Motion to adopt as amended.* *9/6/2108 - Create sub-definitions for the facilities listed under the terms health care facility [1(e)] and health care related facility [1f].*
1f.	381.01 (116m)	Create new definition	DIS, amended by PAC	(116m) "Health care related facility" means an assisted living, residential care apartment complex, memory care, ~~county home~~, infirmary, inpatient mental health center, inpatient hospice, adult day care center, end stage renal disease facility, 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, as defined in pars (a) to (o). (116m) (a) "Adult day care center" means a facility that provides services for part of a day in a group setting to adults who need assistance with activities of daily living, supervision, or protection. An adult day care facility is a type of assisted living facility.		*8/7/18 - Motion to table.* *9/6/2018 – Motion to adopt definition with the term "county home" struck.*

SPS 381 DEFINITIONS AND STANDARDS						
NO.	**RULE PROVISION**	**ISSUE/REASON FOR CHANGE**	**PROPOSED BY**	**EXISTING LANGUAGE AND PROPOSED CHANGE**	**POTENTIAL IMPACT/COST**	**COMMENTS/STATUS**
				(116m) (b) "Assisted living facility" means a facility that provides a residence for individuals who need some level of care monitoring services. (116m) (c) "Dental clinic" or "dental office" means a building or a space within a building that provides outpatient dental services. (116m) (d) "End stage renal disease facility" or "ESRD facility" means a facility that provides outpatient maintenance dialysis services. The ERSD facility may be either a hospital-based or an independent facility. (116m) (e) "Facility for the developmentally disabled" of "FDD" has the meaning given under DHS 134.13 (13). (116m) (f) "Infirmary" means an institution or a space within a larger building where sick or injured individuals receive care and treatment. (116m) (g) "Inpatient hospice" means a facility where the patient lives as defined under s. 50.90 (1), Stats., that primarily provides palliative and supportive care to individuals with terminal illness. (116m) (h) "Inpatient mental health center" or "inpatient facility" has the meaning given under s. 51.01 (10), Stats. (116m) (i) "Institute for mental disease" or "Mental health institute" has the meaning given under s. 51.01 (12), Stats. (116m) (j) "Medical clinic" or "medical office" means a building or a space within a building that provides outpatient medical care. (116m) (k) "Memory care facility" means a facility or space within a facility that provides inpatient care to patients with dementia, alzheimer's disease, or other types of memory problems. (116m) (L) "Residential care apartment complex" has the meaning given under s. 50.01 (6d), Stats. (116m) (m) "Residential care center for children and youth" has the meaning given under s. 48.02 (15d), Stats. (116m) (n) "School of medicine, surgery, or dentistry" means an educational institution or space within an institution or facility that teaches medicine, surgery, or dentistry. (116m) (o) "Urgent care center" means a facility or a space within a facility that provides outpatient medical care for ambulatory patients with minor illnesses or injuries. 8/7/2018 Discussion: Similar and exchangeable terms are used in both definitions of "health care facility" and "health care related facility". How are they differentiated? Suggestion to check with DHS and define each of the terms based on level of service vs. listing the various facilities in the definitions.		*9/6/2108 - Create sub-definitions for the facilities listed under the terms "health care facility" and "health care related facility".*

SPS 381 DEFINITIONS AND STANDARDS						
NO.	**RULE PROVISION**	**ISSUE/REASON FOR CHANGE**	**PROPOSED BY**	**EXISTING LANGUAGE AND PROPOSED CHANGE**	**POTENTIAL IMPACT/COST**	**COMMENTS/STATUS**
1g.	381.01 (117)	Revise	DIS, Amended by PAC	"Health care plumbing appliance" means a plumbing appliance, the function of which is unique to health care activities to which a patient is ~~directly and intimately~~ exposed. Discussion: Appliances that need product approval.	n/a	*8/7/18 - Motion to adopt as revised.*
1g1.	381.01 (172) – renumber to 381.01 (13m)	Revise to reflect terminology in the standard	DIS	Renumber SPS 381.01 (172) to 381.01 (13m) and amend to read: ~~(172)~~ (13m) "~~Pipe applied atmospheric~~ Atmospheric type vacuum breaker" means a type of cross connection control device where the flow of water into the device causes a float to close an air inlet port and when the flow of water stops the float falls and forms a check valve against back-siphonage and at the same time opens the air inlet port to allow air to enter and satisfy the vacuum.		
1g2.	381.01 (189)	Update definition to match the description provided in the ASSE 1020 standard.	DIS	(189) "Pressure vacuum breaker ~~assembly~~" means a type of cross connection control assembly which consists of ~~an independently operating internally loaded check valve and an independently operating loaded air inlet located on the discharge side of the check valve, a tightly closing shut-off valve located at each end of the assembly, and test cocks. The term "pressure vacuum breaker" has the same meaning as pressure vacuum breaker assembly~~ an independently acting check valve force loaded to the closed position and an independently acting air inlet valve located downstream of the check valve that is force loaded to the open position. The assembly also includes two tightly closing shutoffs, one at the inlet of the assembly and one at the outlet of the assembly, and two tightly closing test cocks one immediately upstream and one immediately downstream of the check valve.		
1h.	381.01 (204)	Revise	DIS, Amended by DPD	"Reduced pressure principle backflow preventer" means~~, as defined in ASSE 1013~~, a ~~type of~~ cross connection control assembly ~~which contains~~ 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 ~~and includes~~ include 2 properly located, tightly closing shut–off valves and ~~4~~ properly located test cocks. ~~OR ***Repeal and recreate*** *to read:*~~ ~~"Reduced pressure principle backflow preventer assembly" means an assembly containing two independently acting, approved check valves together with a hydraulically operating, mechanically independent pressure differential relief valve located between the check valves and at the same time, below the first check valve. The unit shall include properly located test cocks and tightly closing shutoff valves at each end of the assembly.~~		*8/7/18 - Motion to adopt as revised.*

SPS 381 DEFINITIONS AND STANDARDS						
NO.	**RULE PROVISION**	**ISSUE/REASON FOR CHANGE**	**PROPOSED BY**	**EXISTING LANGUAGE AND PROPOSED CHANGE**	**POTENTIAL IMPACT/COST**	**COMMENTS/STATUS**
1i.	381.01 ~~(205m)~~	Create	DIS, Amended by DPD, further amended by PAC	Residential Use (Household) Dishwasher means, an appliance which, with the aid of water, automatically washes, rinses and dries (where drying process is included) dishware, glassware and cutlery and most cooking utensils by chemical, mechanical, or electrical means and discharges to the plumbing drainage system. The installation of a residential use (household) dishwasher is not limited to a one- or 2-family dwelling, intended usage dictates if the appliance is considered residential or commercial. Recommended Revision: "Residential-type dishwasher" means an appliance that with the aid of water, automatically washes, rinses, and includes a drying process for dishware and utensils by a chemical, mechanical, or electrical means and discharges to the plumbing drainage system. **Note:** A residential-type dishwasher may also be referred to as a household dishwasher but is not limited to the installation in a one- or 2-family dwelling. The intended use of the dishwasher dictates if the appliance is considered residential or commercial.		*See Item 1c. "Residential" was moved as a sub under "dishwashing machine" and revised as shown in 1c.*
1i1.	381.01 (231m)	Update to match description in ASSE 1056.	DIS	"Spill resistant vacuum breaker" means a cross connection control ~~device~~ assembly consisting of one check valve force loaded closed~~,~~ and an air inlet force loaded open to atmosphere located downstream of the check valve~~,~~. ~~2 shutoff~~ The assembly also includes 2 tightly closing shut-off valves and 2 test cocks or a no. 1 test cock and a bleed valve.		
1i2.	381.01 (280)	Amend for clarification for licensing parameters	DIS	"Water distribution system" means that portion of a water supply system ~~from~~ located downstream of the building control valve to the connection of a fixture supply connector, plumbing fixture, plumbing appliance, water–using equipment, or other piping systems to be served.		
1j.	381.01 (281m)	Create new definition and note	DIS	"Water operator–in–charge" means the person designated by the owner of the building waterworks to be directly responsible for the day–to–day operations of the waterworks. Note: Per NR 114.03(15), "waterworks" means a community water system owned by, or a private utility serving, a county, city, village, town, town sanitary district, utility district or a county–owned or state–owned public institution for congregate care or correction, which includes but is not limited to correctional institutions, correctional camp systems, county jails or houses of correction, mental health institutes, schools for the handicapped, hospitals, infirmaries and asylums. 8/7/2018 Discussion: CMS requires water management. Q: Does this require person to be certified or permitted or obtain CEs? A. No		8/7/18 - *Motion to adopt w/note.*

SPS 381 DEFINITIONS AND STANDARDS						
NO.	**RULE PROVISION**	**ISSUE/REASON FOR CHANGE**	**PROPOSED BY**	**EXISTING LANGUAGE AND PROPOSED CHANGE**	**POTENTIAL IMPACT/COST**	**COMMENTS/STATUS**
1k.	381.01 (282)	Amend for clarification for licensing parameters	DIS	"Water service" means that portion of a water supply system from the water main or private water supply up to and including the building control valve.		
1L.	381.01 (288s)	Create new definition to incorporate term used in rule.	DIS	"Yard Hydrant" means a device with a water supply outlet, or faucet, that has a valve and outlet above ground and a connection to the water supply system below ground.	n/a - Clarifies if yard hydrant installed, it shall meet ASSE 1057.	
2.	381.20	Outdated standards	DIS	Update standards: Tables 381.20-1 to 381.20-13 DPD Action Items Completed • Standards in Tables 381.20-1 to 13 updated to reflect most current version. • All standard developing organizations (SDOs) have been contacted to request complimentary copies of standards. • All electronic copies of standards received thus far from SDOs have been uploaded to Dropbox and made available for committee member review. 8/7/2018 Discussion: Tables containing recommended standards for adoption or re-adoption will be provided to committee and acted upon at future meeting. 8/7/2018 Action Item: Committee to review all standards in the Dropbox prior to the next meeting and request DPD to provide any additional information needed to complete comprehensive review of standards.		5/4/17 - Committee to complete review of standards. 10/10/17: DPD to set up link to Dropbox to share standards for committee review. 3/20/18: Update given to committee re: accessibility of standards.
3.	381.20-4 *Change to* 382.41 – 1	Mitigate problems for contractors & occupants.	Stake-holder	Proposal to adopt A.S.S.E. 1081-2014 for the purpose of supplying water to a boiler system while preventing low hazard backpressure and low hazard backsiphonage to the potable water system. Would allow for a single device to serve as both a fill valve and a cartridge style, dual check backflow preventer.	Minimal	*5/4/17 – Motion to table*. Currently no language in code that allows inspector to accept these devices. *6/14/17 – Motion to accept A.S.S.E. 1081 and place in the appropriate provisions in SPS 381.20 and add*

SPS 381 DEFINITIONS AND STANDARDS						
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
						to Table 382.41-1 under 382.41 (3) (a).

SPS 382 DESIGN, CONSTRUCTION, INSTALLATION, SUPERVISION, MAINTENANCE, AND INSPECTION OF PLUMBING						
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
4.	382.10 (2) (b)	Changes with introduction of SPS 327	DIS Amended by PAC PAC	382.10(2)(b) To fulfill the basic needs of sanitation and personal hygiene, each dwelling with the exception of camping ~~cabins~~ units, connected to a POWTS or public sewer shall be provided with at least the following plumbing fixtures: one water closet, one wash basin, one kitchen sink and one bathtub or shower, except a system or device recognized under ch. SPS 391 may be substituted for the water closet. All other structures for human occupancy shall be equipped with sanitary facilities in sufficient numbers as specified in chs. SPS 361 to 366. Rule-making project for camping units created a definition for camping unit. See 381.01 (50g). [SPS rules relating to camping units & UDC.]		*5/4/17 – Motion to adopt with amendments.* *5/4/17 – Motion to create note to reflect definition of "camping unit" in SPS 327.*
5.	382.20 (1) (a)	The changes in public health care related to CBRFs and inpatient hospice find that the review of the plumbing components have become complex and are treated similar to hospitals and nursing homes.	DIS	SPS 382.20(1)(a) *Department review.* Plumbing plans and specifications for the types of plumbing installations, except direct replacements, listed in Table 382.20−1 shall be submitted to the department for review, regardless of where the installation is to be located. A municipality shall be designated as an agent municipality in accordance with sub. (2). Written approval for the plumbing plans shall be obtained prior to installation of the plumbing. (Table 382.20-1) 1. All plumbing, new installations, additions and alterations, regardless of the number of plumbing fixtures involved, serving hospitals, nursing homes, ambulatory surgery centers, community−based residential facilities (CBRF), and inpatient hospice. [a] 5/4/17 Discussion: Includes all CBRFs – no distinction between small and large. Applicability same as hospitals. If replacing fixtures, needs to be the same as original. [Action Item: DPD & DIS to develop language to incorporate new pre-approval process.]		*5/4/17 – Motion to adopt. One opposed.* [Definition of municipality includes counties.]

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
5a.	382.20 (1) (a) (b) and create (bm)	Permission to start	DIS	Amend (a) and (b) and create (bm). (a) Add: except as provided in (bm) (b) Add: except as provided in (bm) Create (bm)		*10/10/17 - Motion to amend (a) and (b) and create (bm).*
5a1.	382.20 (1) (a)	Revise	DIS	(a) *Department review.* Plumbing plans and specifications for the types of plumbing installations, except direct fixture replacements, listed in Table 382.20−1 shall be submitted to the department for review, regardless of where the installation is to be located. A municipality shall be designated as an agent municipality in accordance with sub. (2). Written approval for the plumbing plans shall be obtained prior to installation of the plumbing.	n/a	*8/7/18 – Motion to adopt.*
5a1. 1	382.20 (1) (b)	Amend to provide options	DIS	(b) *Department or agent municipality review.* 1. Plumbing plans and specifications for the types of plumbing installations, except direct replacements, listed in SPS Table 382.20−2 ~~shall~~ may be submitted for review to an agent municipality~~,~~ if the installation is to be located within the agent municipality or to the department~~, if the installation is not to be located within an agent municipality~~. A municipality shall be designated as an agent municipality in accordance with sub. (2). Written approval for the plumbing plans shall be obtained prior to installation of the plumbing.	Less restrictive - Allows flexibility	
5a2.	382.20 (1) (c)	Revise	DIS	Cross connection control assembly registration. The installation of each reduced pressure principle backflow preventer, reduced pressure principle fire protection ~~principle~~ backflow preventer, spill resistant vacuum breaker, reduced pressure detector fire protection backflow prevention assembly or pressure vacuum breaker shall be registered with the department no later than 7 days after installation of the assembly. 8/7/2018 Discussion: What is considered installation? Is that considered after installation or when system is turned on. Or after it's tested?	n/a	*8/7/18 – Motion to adopt.*
5b.	Table 382.20-1, 1.		DIS	All plumbing, new installations, additions, and alterations, regardless of the number of plumbing fixtures involved, serving hospitals, nursing homes and ambulatory surgery centers, CBRFs, hospice facility, or dialysis facility.[a,c] 3/20/18 Action Item: Tom to check with DHS code – definitions of facility, ambulatory surgical center, health care and related facility. DHS doesn't define all terms.] Adding to table, amending definition. [complete] 5/30/18 Action Item: DPD to research IPC, UPC, and neighboring states. [complete] 5/30/2018 Discussion: Dental office is considered a related HC facility, any room where (human) medical examinations (not chiropractor, optometrist). Q. What is not considered "Related facility" or healthcare? A. doctor's office medical exam room. May need to develop new definition for healthcare facility. See CBC code.	Minimal: life safety issue	*3/20/18 - Motion to table.* 5/30/18 - Discussed. Still need additional information. *8/7/18 – Motion to adopt.*

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
				DHS taking over plan review of CBRFs. 8/7/2018 - Note to DPD: Amend CBRF definition to include acronym. For consistency, amend other provisions using this term. Locate term/definition for dialysis.		
5b1.	Table 382.20-1, 5.	Revision #1	DIS	Reduced pressure principle backflow preventers, reduced pressure <u>principle</u> fire protection ~~principle~~ backflow preventers, pressure vacuum breaker assemblies, reduced pressure detector fire protection backflow prevention assemblies, and spill resistant vacuum breakers serving health care ~~and related~~ facilities.	n/a	*8/7/18 – Motion to adopt.*
		Revision #2		Revised from previously adopted version: 5. Reduced pressure principle backflow preventers, ~~reduced pressure fire protection principle~~ <u>double check</u> backflow ~~preventers~~ <u>prevention assemblies</u>, pressure vacuum breaker assemblies, ~~reduced pressure detector fire protection backflow prevention assemblies~~, and spill resistant vacuum breakers serving health care ~~and related~~ facilities. *DIS: Years ago, the Department did not require the double check backflow prevention assemblies to be submitted and registered because they were only allowed of fire suppression systems and those systems were tested annually. The testing documentation is attached to the system, so it is available to the fire inspector. Recommend that this theory be the same for any assembly serving fire suppression.* *Revision #2 adds "double check backflow prevention assemblies" that are not on fire suppression systems. Currently, definitions are provided for assemblies on fire suppression systems verses those that are not.* Note to DIS: Amend table 20-2 for healthcare related facilities.		
5b2.	Table 382.20-1, 6.	Revise, Water quality issue	DIS	Stormwater and clearwater <u>detention, treatment, and</u> infiltration plumbing systems serving a public building or facility.[C]	Minimal	*8/7/18 – Motion to adopt.*
5b3.	Table 382.20-1, 8.	Create new, Life safety issue	DIS	Potable water storage systems.	Minimal	*8/7/18 – Motion to adopt.*
5b4.	Table 382.20-1, 9.	Create new, Life safety issue	DIS	Potable water treatment systems designed to treat or maintain water for compliance with Table 382.70−1.	Minimal	*8/7/18 – Motion to adopt.*

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
5b5.	Table 382.20-1, 10.	Create new, Life safety issue, to protect water supply used for public consumption Create footnote d.	DIS, amended by PAC	Potable water treatment by use of injection of a solution into the water supply system.[d.] [d.] Excludes one- and 2-family dwellings. Discussion: Includes all water systems, including residential. Water systems are currently not being monitored. Injecting chlorine, byproducts without being checked. Committee concern: This could significantly increase plans going to the state. Add footnote or amend to mean water system that does not go downstream of the water treatment device? Not needed.	Minimal	8/7/18 – Motion to adopt as revised. *Footnote d. added.*
5b6.	Table 382.20-1, 11.	Create new, Life safety issue	DIS	Medical or high purity water. Action Item: DIS to create definition for medical and high purity water.	Minimal	*8/7/18 – Motion to adopt.*
5b7.	Table 382.20-1, 12.	Create new, Life safety issue	DIS	Mixed wastewater holding device.[c] Note to DPD: Repeal #10 from table 2.	Minimal	*8/7/18 – Motion to adopt as revised (footnote added).*
5b8.	Table 382.20-1, 13.		DIS	Multipurpose piping systems (MPP).[d]	Minimal	*8/7/18 – Motion to adopt as revised (footnote added).*
5b8. 1	Table 382.20-1, Footnote a.	Revise note, Registration is required for assemblies, not devices.	DIS	[a.] The registration of cross connection control ~~devices~~ assemblies as required under s. SPS 382.20 (1) (c) is included as a part of plan review and approval.	n/a	
5b9.	382.20 (2) create (d)	Revise existing to include changes from legislation	DIS	AGENT MUNICIPALITIES. The department may designate to an approved municipality the authority to review and approve plumbing plans and specifications for those plumbing installations to be located within the municipality's boundary limits and which require approval under sub. (1) (b). (a) An agent municipality shall utilize a plumbing inspector qualified by the department to conduct plumbing inspection and plan review at a staffing level based on local need. 1. The primary duties of the plumbing inspectors shall include plumbing plan review. 2. The plumbing inspectors shall be Wisconsin licensed master or journeyman plumbers. **Note:** For a listing of agent municipalities, see Appendix A–382.20 (2) or ~~http://~~dsps.wi.gov~~/Documents/Industry%20Services/Forms/Plan%20Review/Industry%20Services%20Division%20Plumbing%20Agent%20Municipalities.pdf.~~ (b) An agent municipality may waive its jurisdiction for plan review and approval for any project, in which case plans shall be submitted to the department for review and approval.		*8/7/18 – Motion to adopt.*

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
				(c) Agent municipalities may set by ordinance the fees for plan review services. (d) Agents municipality appointment shall be renewed every five years. (See Act 198 in Agenda Items folder.)		
5b 10.	382.20 (3)	Create new section, Permission to start Taken from current alternate approval process	DIS	The department may grant approval for a permission to start. This approval permits in lieu of requirements specified in SPS 382.20 (a) and (b). A building owner may request and the department or its authorized representative may grant permission to start the installation of plumbing, to a maximum height of 18 inches above proposed finished floor elevation, upon submission of construction documents under s. SPS 382.20 (4) and application where a scheduled plan review date is greater than 10 business days. (a) The plumbing installations are limited to any of the following: 1. Water service, private water main. 2. Sanitary sewer, private interceptor main sewer. 3. Storm sewer. 4. The interior underfloor building drain, waste, and vent 5. The interior underfloor water distribution. 6. The interior underfloor storm/clearwater building drain. (b) Permission to start will not include healthcare facilities as defined in SPS 381.01(116) or storm infiltration, detention, or retention. (c) The department shall review and make a determination on an application for permission to start the installation of subsurface plumbing within 5 business days of receipt of the application and all forms, fees, construction documents, and information required to complete the review. (d) A building owner who has been granted permission to start plumbing installations may proceed at the owner's own risk without assurance that a conditional approval for the plumbing will be granted. A building owner shall be held responsible for any changes required after plans have been reviewed, and to remove or replace any non-code complying plumbing installations. (e) The provisions of SPS 382.21 apply.	Less restrictive	*8/7/18 – Motion to adopt as revised.*
6.	382.20 (4) (b) 2.	Water Quality Managements letters delays plan review. DNR issue and should be regulated by local municipality.	DIS	Repeal 382.20(4)(b)2, 3 & 4: Plans proposing the installation, creation or extension of a sanitary private interceptor main sewer which is to discharge to a municipal treatment facility shall: a. Be accompanied by a letter from the appropriate designated planning or management agency indicating conformance with an approved area wide water quality management plan under ch. NR 121; 5/4/17 Discussion: This is a local issue. Waiting for letter is holding up plans and permits.	Eliminates the need to expend resources	*5/4/17 – Motion to adopt.*

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
6.01	382.20 (13)	Amend title for consistency	DIS	(13) CROSS CONNECTION CONTROL ASSEMBLY REGISTRATION.	n/a	
6.02	382.20 (13) (b)	Registration not required for devices.	DIS	The form for registering cross connection control ~~devices and~~ assemblies with the department shall include at least all of the following information:	n/a	
6.03	382.20 (13) (b) 1.	Registration not required for devices.	DIS	The building or facility name and address where the ~~device or~~ assembly is or will be installed.	n/a	
6.04	382.20 (13) (b) 2.	Registration not required for devices.	DIS	The location of the cross connection control ~~device or~~ assembly within the building or facility.	n/a	
6.05	382.20 (13) (b) 3.	Registration not required for devices.	DIS	description of the cross connection control ~~device or~~ assembly including the size, model number, serial number, and manufacturer.	n/a	
6.06	382.20 (13) (d)	Registration not required for devices.	DIS	Upon receipt of a completed registration form, the department shall issue written confirmation of registration including a department-assigned identification number for each cross connection control ~~device or~~ assembly.		
6a.	382.20 (13) (e)	Revision #1 Revision #2 – Amend to be consistent with SPS Table 382-1 5.	DIS	Upon permanent removal or replacement of any reduced pressure principle backflow preventer, reduced pressure principle fire protection ~~principle~~ backflow preventer, spill resistant vacuum breaker, reduced pressure detector fire protection backflow prevention assembly, or pressure vacuum breaker, the owner shall notify the department in writing using a format acceptable to the department. Revised from previously adopted version: Upon permanent removal or replacement of any reduced pressure principle backflow preventer, ~~reduced pressure fire protection principle~~ double check backflow ~~preventer~~ prevention assembly, spill resistant vacuum breaker, ~~reduced pressure detector fire protection backflow prevention assembly,~~ or pressure vacuum breaker, the owner shall notify the department in writing using a format acceptable to the department.	n/a	*8/7/18 – Motion to adopt.*
6b.	382.20 (13) create (f)	Create f. Standard recommends annual testing	DIS	(13) f. The testing and calibration of test equipment shall be performed annually.	Minimal	*8/7/18 – Motion to adopt.*
6c.	382.21(1)	Revise	DIS	**Testing and inspection. (1)** TESTING OF PLUMBING SYSTEMS. Except as provided in par. (a), all new plumbing and all parts of existing systems which have been altered,	n/a	*8/7/18 – Motion to adopt.*

<table>
<tr><th colspan="7">SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing</th></tr>
<tr><th>NO.</th><th>Rule provision</th><th>Issue/Reason for change</th><th>proposed by</th><th>Existing Language and Proposed change</th><th>Potential Impact/Cost</th><th>Comments/Status</th></tr>
<tr><td></td><td></td><td></td><td></td><td>extended, or repaired shall be tested and inspected as specified in sub. (2) to disclose leaks and defects before the plumbing is put into operation.</td><td></td><td></td></tr>
<tr><td>7.</td><td>382.21 (1) (b)</td><td>Misconception that testing is only required when there's a local inspector</td><td>DIS Amended by PAC</td><td>(b) ~~Local inspection.~~ Inspections. Where ~~the~~ plumbing is installed ~~in a municipality having a local inspector~~, the testing of the plumbing shall be done in the presence of a plumbing inspector, except as provided in subd. 1. b.</td><td></td><td>5/4/17 – Motion to adopt with amendments.</td></tr>
<tr><td>7a1.</td><td>382.21 (1) (b) 2.</td><td>Add to existing language. Extra time may be required for these types of inspections.</td><td>DIS</td><td>'Preparations for inspection.' When the installation is ready for inspection, the plumber shall make such arrangements as will enable the plumbing inspector to inspect all parts of the plumbing system. The plumber shall have present the proper apparatus and appliances for making the tests, and shall furnish
such assistance as may be necessary in making the inspection. Inspections required in a confined space may require additional fees as specified in SPS 302.04.</td><td>Potential increased hourly rates in accordance with fee schedule I SPS 302.</td><td>8/7/18 – Motion to adopt.</td></tr>
<tr><td>7a.</td><td>382.22 (7)</td><td></td><td>DIS</td><td>(7) DEAD ENDS. If a dead end is created in the removal of any part of a drain system, all openings in the drain system shall be properly sealed in accordance with s. 384.40. ~~Abandoned non-removable traps shall be disconnected from an active drain system.~~

Discussion: Consider changing "properly" to water-tight air tight.</td><td></td><td>3/20/18 – Motion to adopt as amended and reject the underlined portion relating to abandoned traps.</td></tr>
<tr><td>7b.</td><td>Table 382.22-1, column 1</td><td>Revise</td><td>DIS</td><td>Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection ~~Principle~~ Backflow Preventers
ASSE 1013</td><td></td><td>8/7/18 – Motion to adopt.</td></tr>
<tr><td>7c.</td><td>Table 382.22-1</td><td>Revise for consistency, removed requirement of assemblies serving fire systems.</td><td>DIS</td><td>
Table 382.22-1
Testing ~~And~~ and Submitting Requirements ~~For~~ for Cross Connection Control Assemblies
<table>
<tr><th>ASSE Standard Name and Number</th><th>CAN/CSA Standard Name and Number</th><th>ASSE Test Standard Number and Test Required</th><th>Test Results to be Submitted to Department</th></tr>
<tr><td>Double Check Backflow Prevention Assemblies ASSE #?</td><td>Double Check Valve Backflow Preventers CAN/CSA B64.5</td><td>5015</td><td>Yes</td></tr>
<tr><td>~~Double Check Backflow Prevention Assemblies and~~ Double Check Fire Protection Backflow Prevention Assemblies ASSE 1015</td><td>~~Double Check Valve Backflow Preventers CAN/CSA B64.5 and~~ Double Check Valve Backflow Preventers ~~For~~</td><td>5015</td><td>No</td></tr>
</table>
</td><td>n/a</td><td></td></tr>
</table>

NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
		Also see 7b. (7b was previously adopted and now being incorporated into table but revised to reflect the accurate title of the standard.)		<table><tr><td></td><td><u>for</u> Fire Protection Systems CAN/CSA-B64.5.1</td><td></td><td></td></tr><tr><td>Double Check Detector Fire Protection Backflow Prevention Assemblies ASSE 1048</td><td>– – – – – – –</td><td>5048</td><td>No</td></tr><tr><td>Pressure Vacuum Breaker Assembly ASSE 1020</td><td>Pressure Vacuum Breakers CAN/CSA-B64.1.2</td><td>5020</td><td>Yes</td></tr><tr><td><u>Reduced Pressure Principle Backflow Preventers</u> ASSE #?</td><td><u>Reduced Pressure Principle Backflow Preventers CAN/CSA B64.4</u></td><td><u>5013</u></td><td><u>Yes</u></td></tr><tr><td>Reduced Pressure Principle Backflow Preventers and Reduced Pressure <u>Principle</u> Fire Protection ~~Principle~~ Backflow Preventers ASSE 1013</td><td>~~Reduced Pressure Principle Backflow Preventers CAN/CSA B64.4 and~~ Reduced Pressure Principle Backflow Preventers ~~For~~ <u>for</u> Fire Protection Systems CAN/CSA-B64.4.1</td><td>5013</td><td>~~Yes~~ <u>No</u></td></tr><tr><td>Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies ASSE 1047</td><td>– – – – – – –</td><td>5047</td><td>~~Yes~~ <u>No</u></td></tr><tr><td>Spill Resistant Vacuum Breaker <u>Assemblies</u> ASSE 1056</td><td>Spill Resistant Vacuum Breakers CAN/CSA B64.1.3</td><td>5056</td><td>Yes</td></tr></table> Note to DPD: Repeal and recreate table to maintain alphabetical order.		
8.	382.30 (4) (b)	Changes with introduction of SPS 327. Change to 3” min. sewer.	DIS Amended by PAC	*Minimum size of building sewers.* 1. ‘Gravity flow sewers.’ The minimum size of a gravity flow sanitary building sewer shall be ~~4~~ 3 inches in diameter, <u>except sewers serving camping</u> ~~cabins~~ <u>units</u>. Add: <u>Venting shall be according to SPS 382.41 based on DFU load.</u>		*5/4/17 – Motion to adopt with amendment.* *6/14/17 - Motion to craft language relating to venting for*

<table>
<tr><th colspan="7">SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing</th></tr>
<tr><th>NO.</th><th>Rule provision</th><th>Issue/Reason for change</th><th>proposed by</th><th>Existing Language and Proposed change</th><th>Potential Impact/Cost</th><th>Comments/Status</th></tr>
<tr><td></td><td></td><td></td><td></td><td>5/4/17 Discussion: Should this be expanded to include other facilities (i.e. Walgreens)? Would need additional data to support. (Camping units are “seasonal”.) Rule-making project for camping units includes note for the definition of camping units. See 381.01 (50g).</td><td></td><td>camping units in 382.31 (4).

8/7/18 – Motion to amend from 4 inches to 3.</td></tr>
<tr><td>8a.</td><td>382.30-1 Table</td><td>Amend Table, create footnote j.</td><td>DIS</td><td>Table 382.30−1 Drainage Fixture Unit Values by Fixture Type
<table>
<tr><th>Type of Fixture</th><th>Drainage-Fixture Unit Value (DFU)</th><th>Trap Size Minimum Diameter (inches)</th></tr>
<tr><td>Bathroom Group, includes: a water closet, lavatory, and a bathtub or shower</td><td>~~6~~ 5</td><td></td></tr>
<tr><td>Shower Stall:</td><td></td><td></td></tr>
<tr><td>~~Residential~~ Non-public</td><td>2</td><td>2 j</td></tr>
<tr><td>Public, individual</td><td>2</td><td>2</td></tr>
<tr><td>Public, group</td><td>2 per shower head</td><td>2</td></tr>
<tr><td>See exception:</td><td></td><td></td></tr>
<tr><td>Water Closet, nonpublic</td><td>~~4~~ 3</td><td></td></tr>
</table>
Create footnote j. Except as provided in SPS 382.32 (3) (e).
(Relates to #19)

3/20/18 - Action Item (Complete): Ryan to further research flowrates. Determine if the table is necessary, and if so, what the best way is to match trap sizes to fixture for anticipated loads.] See 5/30/18 agenda packet for supplemental information.

5/30/18: Committee to review table for consideration of other changes (for commercial piping). Research IPC 2018 Table 709.1.

8/7/2018 Discussion: Handout provided by Joe - Eliminate assembly/school column and create footnotes for the listings under urinal and water closest. Joe to revise. Consider defining emergency floor drain, continuous vs. intermittent, add kitchen handwashing sink. See #8d.</td><td></td><td>3/20/18 – Motion to table for further information.

5/30- Motion to replace all references from “residential” to “non-public”, where appropriate.

5/30 – Motion to create footnote J. and accept changes in DFU column and amend bathroom group language as shown.

5/30 – Motion for committee members to review Table 382.30-1 for additional changes based on data.

9/6/2018 - Motion to adopt amendments to Table 382.30-1 as discussed.</td></tr>
<tr><td>8b.</td><td>Table 382.30-1</td><td>Revise</td><td>DIS</td><td>Automatic Clothes Washers:
Commercial type, individual
Commercial type, large capacity</td><td>n/a</td><td>8/7/18 – Motion to table (pending</td></tr>
</table>

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
				~~Self Service Laundry~~ Residential type		*revisions to Table 382.30-1).* *9/6/2018 - Motion to incorporate item 8b. with 8a.*
8c.	382.30 (3) (a) 2.	Revise and move Note under par. a. and place under par. b.	DIS	(a) 2. 'Devices.' Drainage fixture unit values for intermittent flow devices not listed in Table 382.30–1 shall be computed on the basis of one fixture unit ~~equalling~~ equaling one gallon per minute of flow. ~~**Note:** Equipment with a timed discharge cycle(s) of 2 minutes or less may be considered as an intermittent flow device.~~ (b) *Continuous flow devices.* Drainage fixtures unit values for continuous flow devices such as pumps, ejectors, air conditioning equipment or similar devices that discharge continuously shall be computed on the basis of 2 fixture units for each one gallon per minute of flow. **Note:** Equipment with a timed discharge cycle(s) of 2 minutes or less may be considered as an intermittent flow device.	n/a	*8/7/18 – Motion to adopt.*
8d.	382.30 (4) (a) 2.	Repeal	DIS, repealed by PAC	~~The drainage fixture unit values assigned to receptor emergency floor drains and receptors which is to that receive only the indirect waste discharge from a relief valve on a domestic water heater may be disregarded when determining the minimum size of the building drain and building sewer. Any drain piping between the receptor and the building drain shall be sized by including the assigned fixture unit values for the type of receptor.~~ 8/7/2018 Action Item: Create definition for emergency floor drain and intermittent. Definition included in Table 382.30-1 footnote e.	Less restrictive	*8/7/18 – Motion to table.* *9/6/2018 – Motion to repeal.*
9.	382.30 (10) *382.34 (f)?*	Exterior ejector pits	POWTS Advisory Comm.	More specification about exterior ejector pits may be needed. Does the department want to make jurisdictional lines-right now? This would be a plumbing issue. Clarification of what should be looked at for ejector pits. - Anchoring 83, Locks 84, Setbacks 83 Clarification: Who inspects? Connection at tank to inlet of septic tank = POWTS. Depends on size of jurisdiction and who appoints. Interior=UDC. Per stat, local has authority to appoint. Ch. 384 – changes to remove "POWTS" term. 8/7/2018 Discussion: Who inspects and who reviews? It is considered plumbing. Forthcoming proposed changes coming that will address this issue in ch. SPS 384.		*5/4/17 - Tabled.* Need additional information. 5/30/18 - No committee action needed. Rob to clarify intent of this request. 8/7/2018: No action required.
9a1.	382.30 (10) (a) 2. c.	Revise	DIS	Between the highest "pump on" switch level and the sump inlet, the sump shall hold the amount of input that exceeds the discharge of the pumping equipment in a 5-minute peak input period~~.~~. Capacity shall be based on one pump only. ~~but in~~ In no case shall the vertical distance between the switch and the inlet be less than 3".	n/a	*8/7/18 – Motion to adopt.*

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
9a2.	382.30 (10) (d)	Revise, and renumber (intro) to 1.	DIS	(d) *Exterior sumps.* Exterior sumps shall comply with s. SPS 384.25. 1. The minimum capacity of exterior sumps shall be determined in accordance with all of the following: [Note to DPD – Renumber the current 1. to 1m.]	n/a	*8/7/18 – Motion to adopt.*
9a.	382.30 (11) (b) 3. c.	Health/Safety issue. Pool rooms must drain dry and pool approvals are being held up. DATCP no longer doing petitions. (SPS 390) Covered in pool code	DIS Amended by PAC	3. 'Floor drain required.' a. Where a plumbing fixture or appliance is located on a floor which is entirely below grade, a floor drain shall be installed to serve that floor. b. In any room containing the recessed or concealed portions of sterilizers located in health care or related facilities, at least one floor drain connecting to the drainage system shall be installed in a manner to adequately drain the entire floor area. c. In any public swimming pool toilet or locker room, floors shall be pitched and the floor drains located in a manner to prevent standing water. [Note to DPD: Tweak wording as needed. Should a note be inserted here to refer to pool code vs. duplicating language?] Discussion: Per SPS 390, pool room floors need to drain dry.		*3/20/18 - Motion to create c. and adopt as proposed.*
10.	382.30 (11) (c) 2.	Frost Protection: Clarification of building sewer insulation requirements	POWTS Advisory Comm.	Possibly simplify insulation requirements to specify none, 4-ft. sheet, or box the pipe. Code only talks about width and doesn't make sense. *5/04/17 - Discussion: Is this needed in this code? Code is silent re: insulated pipe. Codify or move to Appendix? Consider saying 'frost protected' and put responsibility back on professional, consider adding insulated pipe as an option equal to blue-boarding (or 'any combination of the following that…')* 8/9/17 - Discussion: If heat source, insulated pipe works well. If no heat source, no movement of air through tank. (Grease source, septic, etc.) [5/04/17 - Tom to get insulation factors and recommendations for insulation pipe.] 382.30 (11) (c) 3. d. – allows approval on alternates	Medium	*5/4/17 - Tabled.* 8/9/17 – Tabled pending new language. [Tom] 5/30/18 - No committee action needed. Withdrawn per DIS.
11.	382.30 (11) (c) 2. e.	Allows for seasonal homes	DIS, Amended by PAC	Where a building sewer or private interceptor main sewer is installed to serve ~~summer~~ seasonal use ~~public facilities,~~ frost protection requirements shall not apply. *Discussion: Consider changing "summer" to "seasonal" for consistency w/other rules. Consider creation of note to reference definition of "seasonal".* Per SPS 364.0309 (2), "Seasonal" is considered as the period between May 1 through October 15.		*5/4/17 - Motion to table.* 6/14 /17 - *Motion to create a definition of seasonal in SPS 381 as defined under 364.0309 (2).* *8/9/17 - Motion to create definition for "seasonal" to mean*

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
						the period of April 15 through October 31 for the purpose of frost protection.
11a.	382.30 (11) (e)	Revise	DIS	(e) *Installation of building drains and building sewers.* 1. 'Trenching.' All excavations for building drains and building sewers shall be open trench work, unless otherwise ~~permitted~~ approved by ~~local ordinance or accepted by~~ the ~~local inspector~~ department.	Less restrictive	*8/7/18 – Motion to adopt.*
12.	382.30 (12)(f) 382.30 (11) (a)	Non-easement issues	DIS PAC	Existing: No private interceptor main sewer may pass through or under a building to serve another building, unless one of the following conditions are met: Proposed: 3. An easement and agreement for maintenance and repairs shall be recorded with the register of deeds no later than 90 days after installation. Discussion: Issues w/neighbor disputes re: who is maintaining easement. Proposal provides directive to alleviate issues. *Consider additional amendments to this section.* *Consider adding new language after 'main sewer'….'or building sewer that connects to a private interceptor…' OR change 382.30(11) (a). Includes water, storm, and sanitary sewers.* [Action Item: Tom to develop amended language. Research PSC 284 or other rule provisions for language to address issue.] 9/7/2018 – DIS and DPD to research if consistent with PSC 284 – individual connections. Does plumbing code trump? DPD to seek legal counsel.		*5/4/17 – Motion to table pending new language.*
13.	382.30 (13)(c) 382.30 (13) (b)	Clarification	DIS Amended by PAC	Exposed drain piping shall not be located over a pool, surge tank, or an open filter for a pool. Proposed: Add Note: Note: ~~Piping with insulation is not exposed.~~ SPS 382.30(13) (c) (Note) is created to read: **Note**: See ch. 382 Appendix for examples of exposed piping considerations. *5/04/17 - Discussion: Intent is to prevent installation of ceilings to cover piping. Consider additional amendments to this section and other sections relating to exposed pipes over consumables. Consider including examples of porous insulation (indicating a leak) in the Appendix (i.e. fiberglass w/paper sleeve or other porous insulation)* *6/14/17 - This may fall under health department. They may allow a trough.*	Less restrictive	*5/4/17 – Motion to adopt with amended note.*
13 a1.	382.31 (10) (a)	Revise – Allows use of double wyes	DIS	(a) The circuit vent shall connect to the horizontal drain at the same point or a point between the 2 most upstream fixtures.	Provides flexibility	*8/7/18 – Motion to adopt.*

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
13a.	382.31 (11) (a)		DIS Amended by PAC	(a) *Vertical drains.* A common vent may serve a maximum of 2 fixtures where both fixture drains connect to a vertical drain at the same elevation. 1. Where this connection is by means of a sanitary tee fitting with a side inlet, the centerline of the side inlet opening may not be below the centerline of the larger opening. 2. The drain connection of a blowout type fixture, ~~or a~~ kitchen sink, or a clothes washer served by a common vent may not be by means of a double sanitary tee fitting.		*3/20/18 – Motion to adopt to add clothes washer and renumber into two sections.*
14.	382.31 (12)	Clarification	DIS Amended by PAC	RETURN VENTS. ~~Plumbing~~ Wall outlet ~~plumbing~~ fixtures may be vented in accordance with pars. (a) to (d).		5/14/17 – Left off here. *6/14/17 – Motion to adopt w/amendment.*
15.	382.31 (16) (d) 1.	Existing language too restrictive	DIS Amended by PAC	*Location of vent terminals.* ~~1. A vent shall not terminate at least 5 feet under the overhang of a building.~~ Create: 2. e. If a vent terminates under an overhang, it shall be a minimum of 5 feet below the overhang.		*6/14/17 - Motion to strike 383.31(16) (d) 1.* *6/14/17 -Motion to create 382.31 (16) 2. e.*
16.	382.31 (16) (e)	Dept. approval not required	DIS	*Extension through wall.* ~~Where approved by the department,~~ ~~a~~ A vent may terminate through an exterior wall. Such a vent shall terminate at least 10 feet horizontally from any lot line and shall terminate downward. The vent shall be screened and shall comply with par. (d).		*6/14/17 - Motion to adopt.*
17.	382.31 (18)	Renumber due to creation of new section	DIS	Renumber (18) PROHIBITED USES to (19). ~~(18)~~ (19) PROHIBITED USES		6/14/17 - No committee action required.
18.	382.31 (18)	Codifying AAV alternate approval Doesn't have to go through plan review if in code.	DIS, Amended by PAC	Create new section: (18m) AIR ADMITTANCE VALVES (AAV). The use of air admittance valves in lieu of traditional venting shall comply with all of the following: (a) The AAV may only serve as a termination point for a branch vent, circuit vent, common vent, individual vent, wet vent or- combination drain and vent system. The AAV may serve a pumped-discharge type clothes washer standpipe when the fixture drain downstream of the point of vent is at least 3 inches in diameter. (b) The AAV may not serve as a vent termination point for any of the following: to relief positive pressures, serving chemical waste system, serving POWTS holding tank or POWTS treatment tank, serving a stack vent serving two or more branch intervals, serving a vent stack that is required in accordance with s. SPS 382.31 (4) (a), serving a sump, serving Bio Safety Lab (BSL) 3 or 4 laboratories. (c) The size and developed length for a vent using an AAV shall conform with Table 382.31-6.		*6/14/17 – Motion to adopt with amendments.* 8/9/17 - Tabled: No ASSE number available at this time. [Action Item: DPD to Send standard once available. To be addressed in ch. 384.] 5/30/18: DPD to look for ASTM or ASSE

NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
				TABLE 382.31-6		standard number for AAV - onsite testing. Add the standards to the standards table.

Maximum DFU's	Maximum Developed Distance of Vent to Connection of AAV in Feet		
	Diameter in Inches		
	1-1/4[a]	1-1/2[c]	2
1	35	NL	NL
3	28	140	NL
6	NP[e]	100	200
20	NP	60	110

(d) Testing. AAV's 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 of an inch or less, it will be considered a passing AAV.

(e) Installation. The installation of the AAV shall conform with all of the following:

1. The AAV must be installed in the vertical position (plus or minus 15 degrees from plumb).
2. The vent system being served by the AAV may have horizontal offsets located less than 36 inches above the floor on which the fixtures are installed providing the vent does not connect to another vent.
3. The installation location of the AAV shall conform with all of the following:
   a. A minimum of 4 inches above the top of the horizontal pipe being served.
   b. No more than 20 inches below the flood rim of any fixture served.
   c. At least 6 inches above insulation materials.
   d. In an accessible area.
   e. Within a ~~ventilated~~ space that allows air to enter the product and has an opening equivalent to requirements in 382.31 (14) ~~with an area of at least one square inch~~ to the ~~building air or outside air~~ atmosphere.
   f. With at least one ~~open air~~ vent ~~located~~ connected to the building drain waste and vent system and located downstream of ~~all any air admittance valves~~ AAV extending to outside atmosphere.~~, and with a 3 inch or larger vent installed to the outside atmosphere in all systems that include air admittance valves AAV installation.~~
   g. ~~and with~~ With a 3 inch or larger vent ~~installed~~ to the outside atmosphere connected to the building drain waste and vent system ~~outside atmosphere in all any systems that include air admittance valves AAV installations.~~
4. The AAV may not be located in any of the following areas:
   a. An enclosed stairwell.
   b. An area subject to positive pressure conditions for more than 12 continuous hours.

Q. Need drawing in appendix? A. No

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
				c. An area utilized as supply or return air plenum. d. A pit, vault, or depression which is below the adjacent grade or floor level. e. An area that subjects the valve to ~~conditions with~~ grease or other materials which could cause fouling of the valve's seal. 5. The AAV may not be located within the same room or enclosure as any of the following: a. A Bio Safety Lab (BSL) 3 and 4 laboratory. b. A health care facility as defined is s. SPS 381.01 (116). c. A restaurant kitchen licensed by the state or local department of health. d. A residential bedroom. e. A daycare. 6. Branches that have fixtures served by the AAV must comply with all of the following: a. When connected to a stack that has 4 or more branch intervals above the branch connection, the branch must be provided with a relief vent located between most downstream fixture and the stack. b. c (f) Notice to Owner: When an AAV is installed in a building, the contractor shall provide the owner with a copy of the manufacturer's written AAV description.		[Resolved] ~~(f) POWTS consideration. Cabin consideration Define "open air vent". Further discussion needed on "downstream". Goal is to eliminate positive pressure. Insert "branch" after vent? Eliminate 3. f.?~~
19.	382.32 (3) (e)		DIS, amended by PAC	*Size.* Traps shall be of diameters not less than those specified in Table 382.30−1 of s. SPS 382.30. a. 1. The minimum trap diameter for a trap serving a shower replacing a ~~residential~~ non-public bathtub is 1.5 inches providing the following apply: 1. a. The shower is served by one control valve ~~and one shower head~~. b. The shower head shall have a maximum flow rate of 2.5 gallons per minute (gpm). Discussion: Consider adding "fixtures shall drain dry"? Determine where this provision should be placed in SPS 384. [Note to DPD: Make change in 382.32 (3) (f). 'Except as provided in…'] *6/14/17 – Motion to adopt with amendments.* *8/9/17 – Motion to place note under Table 382.30-1 to read: 'See SPS 382.32 (3) (e) for exceptions.'* *5/30/18 – Motion to add "non-public" after the (struck) word residential.* 8/7/2018 – Will address "non-public" when Table 382.30-1 complete. 9/6/2018 – Motion to withdraw previous		

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
						changes relating to "non-public". .
19a.	382.32 (4) (b) 1.	Revise, due to multiple petitions, esp. from hospitals	DIS	1. 'Vertical distance.' ~~Except as provided in subd. 1. a. to c., the~~ The vertical distance of a wall outlet fixture between the top of the fixture drain outlet and the horizontal center line of the trap outlet shall not exceed 15".	Eliminates need for petition	*8/7/18 – Motion to adopt.*
20.	382.32 (4) (b)1. c.	Similar type fixtures	DIS	The vertical distance between the water level in the bowl of a floor outlet water closet or floor outlet clinic sink and the center line of the horizontal portion of the fixture drain shall not exceed 36 inches.		*6/14/17 – Motion to adopt.*
20a.	382.32 (4) (b) 1. e.	Create e., Spancrete issues, separating from 19a.	DIS	1. e. The vertical distance of a floor outlet fixture between the top of the fixture drain outlet and the horizontal center line of the trap outlet shall not exceed 18".	n/a	*8/7/18 – Motion to adopt.*
21.	382.32 (5) (b)	Issues with dishwashers, clothes washers and disposals	DIS	Existing: *Kitchen sinks.* Horizontal drain piping serving a kitchen sink trap shall not connect to vertical drain piping by means of a double sanitary tee. Proposed: 1. Horizontal drain piping serving appliances with pumping action discharge shall not connect to vertical drain piping by means of a double sanitary tee.		*6/14/17 – Motion to adopt.*
21.a	382.32 (5) (c) 2.	Enforcement Issue	Musolff	SPS 382.32 (5)(c)2. A floor outlet water closet shall connect to a 4-inch or 4 X 3-inch closet collar fitting. ~~A 4 X3 inch closet bend fitting may be installed where a 4 inch closet collar fitting is used.~~		*3/20/18 – Motion to adopt as presented, eliminate 2nd sentence (in red).*
22.	382.33	Need to expand table?	DIS, amended by PAC	(b) Indirect waste piping and local waste piping draining the fixtures, appliances and devices having a public health concern, including ~~but not limited to~~ those listed in Table 382.33-1, shall be considered as plumbing and shall comply with the provisions of this section. Table 382.33-1 – some states allow indirect waste piping. Discussion: kitchen sink – suds. Table 382.33-1 Refrigerated food storage rooms and compartments Refrigerated food display cases Ice compartments and ice makers Vending machines Steam tables, kettles, and related equipment Food preparation sinks Potato peelers Egg boilers		*8/9/17 - Motion to add "Other devices, fixtures, and appliances as approved by the department."* *8/9/17 - Motion to add ice-makers and "and related equipment".*

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
				Boiler blowoff basin outlet drains Coffee makers and urns Food processing equipment Baptismal founts Clothes washers and extractors Dishwashers Stills Sterilizers Bar and soda fountains Boiler blowoff basin outlet drains Other devices, fixtures, and appliances as approved by the department *6/14/17 Discussion: Allow indirect piping? Allow use of floor sinks? If allowed, would also affect 382.33 (2). No.* *8/9/17 Discussion: Is "as approved by department" too vague/open-ended? Will enforcement vary?*		
22a.	382.33 (5) (b) Note	Repeal note due to repeal of re: section in SPS 325.	PAC	SPS 382.33 (5) (b) and (note): (b) *Local waste piping.* Local waste piping handling sanitary wastes and more than 30" in length shall be provided with a trap in accordance with s. SPS 382.32 (4). ~~Note: Residential exclusion see. S. SPS 325.~~		*9/19/17 – Motion to keep SPS 382.35 (5) (b) and repeal note.*
22b.	382.33 (6)	Amend for drafting style	UDC	(6) MAXIMUM LENGTH. Indirect waste piping and local waste piping handling sanitary wastes ~~shall~~ may not exceed 30 feet in length horizontally nor 15 feet in length vertically.		*No*
23.	382.33 (8) (d)	Industry standard Adds allowance	DIS	*Other receptors.* A plumbing fixture may not be used as a receptor for indirect or local waste piping, except as provided in subds. 1. to ~~7~~ 8. 8. A water closet, clinical sink, or a urinal may receive the discharge from a mortuary or autopsy table. Consider adding 9. Tom to check into dialysis provision. 8/9/17 Discussion: Review 382.50 – dialysis boxes in patient rooms. Concern that boxes may not be used for extended lengths of time – bacteria growth, require to cap off when not in use. - Alternate approval for carts: Provisions for dialysis boxes should be addressed until alternate approval expires in April 2022. Will address after alternate approval expires. [DPD to draft language for 382.50. No committee action required at this time.]		*6/14/17 - Motion to adopt 8.* *8/9/17 – Motion to request Department to draft language for SPS 382.50 relating to dialysis boxes.*

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
23a.	382.33 (8) (d) 2.	Revise	DIS	The indirect waste piping of ~~an~~ a residential-type automatic clothes washer or water treatment device may discharge into a laundry tray.	n/a	*8/7/18 – Motion to adopt.*
24.	382.33 (8) (d) 3.	Use of term "branch" is confusing	DIS	The indirect or local waste piping serving a cross connection control device or assembly, water treatment device, air conditioner, humidifier or furnace condensate may discharge into a ~~branch~~ tailpiece serving a laundry tray. *6/14/17 Discussion re: ice makers*		*6/14/17 - Motion to adopt.*
25.	382.33 (8) (d)7.	Use of term "riser" is confusing	DIS, Amended by PAC	The indirect waste piping serving a dental mold grinder may discharge into the ~~riser or~~ tailpiece of a trap serving a ~~laboratory~~ sink that is provided with a plaster trap and is installed within 3 feet of the mold grinder.		*6/14/17 – Motion to adopt.*
26.	382.33 (9) (a)	Specific discharge language	DIS	Existing: Addition to. Proposed: Indirect waste must discharge to an approved receptor.		*6/14/17 – Motion to adopt.*
27.	382.33 (9) (c) 2.	Clarification – This is not limited to self-service laundries.	DIS	~~'Self−service laundries~~ Laundries.' Pumped−discharge automatic clothes washing equipment, including residential-type clothes washers in launderettes, laundromats, and self−service laundry establishments shall have the wastes discharge to a drain system by means of standpipes. The standpipes shall be installed in accordance with subd. 1.	Less restrictive	*6/14/17 – Motion to adopt.*
27 a1.	382.33 (9) (c) 2. a.	Move under "residential type" washers. Clarify: Clothes washers discharge via indirect waste piping and are technically not "connected" to a trap.	DIS	Renumber to (9) (c) 1. c. The maximum allowable number of washers which may ~~be connected~~ discharge to ~~a~~ the minimum sized trap shall be in accordance with Table 382.33−2.	n/a	*8/7/18 – Motion to adopt.*
27 a2.	382.33 (9) (c) 2. b.	Move under "residential type" washers. Use plural form of	DIS	Renumber to (9) (c) 1. d. Washer wastes shall not be discharged to gutters, troughs, local waste piping, indirect waste ~~manifold~~ manifolds, or other similar connections.	n/a	*8/7/18 – Motion to adopt.*

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
		manifold for consistency				
27 a3.	382.33 (9) (c) 3.	Revise for consistency & clean up	DIS	'Commercial-type.' Gravity discharge~~-type~~ clothes washing equipment shall discharge by means of an air-break or by other approved methods into a floor receptor, trench, or trough.	n/a	*8/7/18 – Motion to adopt.*
27 a4.	382.33 (9) (c) 3. c.	Revise, add subsection #	DIS	All wastes from the washers shall flow through an ~~Commercial laundry~~ interceptor as specified in s. SPS 382.34 (7).	n/a	*8/7/18 – Motion to adopt.*
27 a5.	Table 382.33-2 (title)	Revise title	DIS	~~Washer~~~~Connections~~ Clothes Washer Discharge	n/a	*8/7/18 – Motion to adopt.*
27 a6.	382.33 (9) (f) 3. to 5.	Move subd. 3. to 5. under section 382.36 (8) (a) See also 38 e1.	DIS	~~3. b. A sump may not be located in an elevator machine room.~~ ~~4. A drain serving an elevator pit that discharges to a sump shall have a submerged inlet constructed to maintain a minimum 6" trap seal.~~ ~~5. A sump located in an elevator pit may only receive storm or clear water waste from the elevator pit or the elevator machine room, or both.~~	n/a	*8/7/18-No action needed.*
27 a7.	382.33 (9) (g)	Amend for clarity, confusing	DIS	*Food ~~handling establishments~~ service*. Plumbing fixtures, devices, appliances, and appurtenances installed ~~in~~ for food ~~handling establishments engaged~~ service ~~in~~ including the storage, preparation, selling, serving, or processing of food intended for human consumption shall be installed in accordance with this paragraph.	None	
27 a8.	382.33 (9) (g) 1.	Where DATCP requires and additional handwashing sink after a final		1. 'Bar and soda fountain sinks.' Where a bar, ~~or~~ soda fountain, or handwashing sink is so located that the trap for the sink cannot be vented as specified in s. SPS 382.31, the sink drain shall discharge to the sanitary drain system through indirect waste piping.	Less restrictive	
27a.	382.33 (9) (g) 4.	Revise to coincide with code. DHS & DATCAP use for food industry. Air break no longer required for bigger refrigerated rooms.	DIS	4. `Refrigerated food storage rooms, compartments and display cases.' Drains serving refrigerated food storage rooms, compartments or display cases shall discharge to the sanitary drain system through indirect waste piping. The indirect waste piping shall drain by gravity to a receptor by means of an air-gap or air-break. Where an air-break is installed, the flood level rim of the receptor shall be at least 2" below the top of the fixture strainer or drain opening in the refrigerated room, compartment or display case. [Completed: Tom to research DHS and DATCP language relating to refrigerated food storage.] 8/7/2018 Update: Nothing was found that eliminates the requirement in DATCP 75.		*3/20/18 – Table for more information from Tom.* *8/7/18 - Withdrawn*
28.	382.33 (9) (g) Note	Amend term from 'material'	DIS	Note: See ch. SPS 382 Appendix for further explanatory ~~material~~ information.		*6/4/17 - Tabled* *8/9/17 - Motion to amend notes*

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
				Discussion: "Material" typically references plumbing material.		*throughout code to replace 'material' with 'information'.*
29.	382.33 (9) (k) 3.	Codifies alternate standard that has been allowed.	DIS	The discharge from deck drains serving outdoor pools shall be directed to the storm sewer by way of an air−gap, air-break, or to grade. The distance from the top of the air-break to the pool deck shall be a minimum of 6 inches. Discussion: Use of air-break proven to protect public health associated w/public swimming pools. Less restrictive w/equivalent protection of air-gap for pool discharge.	Less restrictive	*6/14/17 - Motion to adopt.*
29a.	382.34 (title)	Revise Title	DIS	~~**Wastewater**~~ **Water treatment and holding devices. (1)** SCOPE. The provisions of this section set forth the requirements for design and installation of plumbing ~~wastewater~~ water treatment and holding devices, appurtenances and systems, including but not limited to interceptors, catch basins, decontamination tanks and dilution and neutralizing basins.	n/a	*8/7/18 – Motion to adopt.*
29b.	382.34 (3) (a)	Move under new section 382.34 (16)	DIS	~~(a) *Treatment for reuse.* 1. Except as limited in subd. 2., graywater, storm water, clear water, blackwater and other wastewaters as approved by the department may be reused in conformance with s. SPS 382.70.~~ ~~2. Except as provided in subd. 3., wastewater discharged from water closets or urinals shall not be reused for drinking water.~~ ~~3. All treatment works permitted by the department of natural resources, or a POWTS which includes an in situ soil dispersal or treatment component may treat wastewater discharged from water closets or urinals for reuse.~~	n/a	*8/7/2018: No action needed.*
30.	382.34 (15) (e) 1.	Original is confusing	DIS	1. A discharge line ~~serving~~ shall serve a containment tank for servicing purposes and shall comply with all of the following: 6/14/17 Discussion: Hospital decon tents not required to put in tank but if they do, have to follow standards.		*6/14/17 - Motion to adopt.*
31.	382.34 (15) (d) 1.	Hospitals need to account for all water.	DIS	Create: Where a containment tank has an outlet that is connected to a drain system, the outlet shall include a means to contain the wastewater from entering the drain system until proven to be safe for discharge.	Allows an additional option	*6/14/17 - Motion to adopt.*
32.	382.34 (3) (e)	Specific maintenance for grease interceptors is needed.	DIS, amended by PAC	*Maintenance.* All devices installed for the purpose of intercepting, separating, collecting, holding or treating harmful, hazardous or deleterious materials in liquid or liquid−borne wastes shall be operated and cleaned of intercepted or collected materials or of any residual from treatment at such intervals which may be required to prevent their passage through the interceptor. ~~Exterior~~ ~~grease~~ Grease interceptors shall be maintained on a cycle not to exceed 90 days or per manufacturer's instructions.	More restrictive	*6/14/17 - Motion to adopt.*

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
32a.	382.34 (3) (g) 4.	Create new to codify common practice		4. Anchoring system components. An exterior subsurface treatment tank holding component, or reservoir to be installed in an area subject to saturated conditions, shall be installed so as to prevent flotation of the tank or component.		
33.	382.34 (4) (b)	Basket req. to be removable for cleaning of fixture. Incl. in SPS 325 .01.	DIS	*Garages for one− and 2−family dwellings.* 1. Floor drains serving garages for one− and 2−family dwellings shall be provided with a removable solid bottom sediment basket.	Less restrictive	*6/14/17 - Motion to adopt.*
~~33a.~~	~~382.34 (4) (b) 2.~~	~~Add paragraph c, relates to min access grate or opening.~~	~~DIS~~	2. ~~a. Except as permitted in subd. 2. b., catch basins serving garages for one- and 2-family dwellings shall be designed and installed in accordance with par. (a) 2.~~ ~~b. The minimum inside diameter of catch basins serving garages for one- and 2-family dwellings shall be 18 inches.~~		*3/20/18 – Disregard. Retain original language. No motion made.*
34.	382.34 (4) (c)	Renumbering and adding subd.2. & 3. to mirror recent changes to SPS 325.01(4). UDC uses same language.	DIS, amended by PAC	382.34(4)(c)1. *Grates for garage catch basins, floor drains and trenches.* A garage catch basin, floor drain and trench drain shall be provided with an approved, removable ~~cast iron or steel~~ grate of ~~a thickness and~~ sufficient strength for the anticipated loads. The grate shall have an available inlet area equal to at least the outlet drain for the catch basin, floor drain or trench drain. ~~382.34(4)(c) 2. The grate for a garage−floor drain sufficient~~ thickness and ~~strength that will withstand the anticipated loads.~~ 382.34(4)(c) ~~3.~~ 2. A trap may be omitted for a catch basin, floor drain serving a garage for a one− and two−family dwellings that discharges to the ground surface. ~~**Note:** For residential exclusion see s. SPS 325.01 (4) (c).~~ [DPD: Only repeal note if related section in SPS 325 is repealed.]		*6/14/17 - Motion to adopt SPS 382.34 (c)1. to 3.* *9/19/17 – Motion to amend SPS 382.34 (4) (c) 1., and strike 382.34 (4) (c) 2. and 3. (Note).*
35.	382.34 (5) (b) 2. and a.	Other more economical methods to intercept grease. #1 issue w/petitions.	DIS	Repeal SPS 382.34 (5) (b) 2. and 2. a.: 2. 'Private onsite wastewater treatment systems.' All new, altered or remodeled plumbing systems which discharge to private onsite wastewater treatment systems shall be provided with exterior grease interceptors. a. Except as provided in subd. 2. b., only kitchen and food wastes shall be discharged to an exterior grease interceptor. [Renumber 382.34 (5) (b) 2. b. and c.]	Less restrictive. Less cost.	*6/14/17 - Motion to adopt.*
36.	382.34 (5) (c)	Clarification. Other non-grease producing fixtures tend to interfere	DIS	*Exterior grease interceptors.* ~~Exterior~~ New exterior grease ~~interceptors~~ interceptor installations shall receive the entire greasy waste discharge from kitchens or food processing areas. All exterior interceptors shall be designed and constructed in accordance with this paragraph, so as to constitute an individual structure. *6/14/17 Discussion: Consider definition for "greasy waste"?*		*6/14/17 - Motion to adopt.* *6/14/17 - Motion to change title of 382.34 (5) to Fats, Oils, and Grease (FOG)*

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
		with proper grease interception.				*Treatment and add a note to FOG definition [SPS 381.03 (93m)].*
37.	382.34 (5) (c) 1. g.	Compartments on exterior grease interceptors prevent channeling of waste.	DIS	An exterior grease interceptor shall have at least two compartments. Each compartment of an interceptor tank shall be provided with at least one manhole opening located over either the inlet or outlet opening. Additional manhole openings shall be provided such that no interior compartment wall of a tank is more than 4 feet from the edge of the manhole opening. The distance between manhole openings serving the same compartment shall not exceed 8 feet. Manhole openings shall be not less than 23~~"~~ inches in the least dimension. Manholes shall terminate at or above ground surface and be of approved materials.		*6/14/17 - Motion to adopt.*
37 a1.	382.34 (5) (d) 8.	Create new	DIS	For calculating greasy waste for a wok the following formula may be used: $\frac{\text{Diameter x Diameter x .7854 x Depth x .65 x .75}}{231}$		*8/7/18 – Motion to adopt.*
37a.	382.34 (15) (a) 2.	Amend to remove exterior	DIS	~~Exterior containment~~ Containment devices or treatment systems for mixed wastewater, decontamination tanks or other special wastewater treatment devices shall be constructed in accordance with s. SPS 384.25 or as approved by the department.		*3/20/18 – Motion to adopt.*
37 a2.	382.34 (16)	Create new section (16) Keeps performance and includes other parts of code.	DIS	(16) WATER REUSE SYSTEMS. (1) *Treatment for reuse.* 1. Except as limited in subd. 2., graywater, storm water, clear water, blackwater and other wastewaters as approved by the department may be reused in conformance with s. SPS 382.70. 2. Except as provided in subd. 3., wastewater discharged from water closets or urinals shall not be reused for drinking water. 3. All treatment works permitted by the department of natural resources, or a POWTS which includes an in situ soil dispersal or treatment component may treat wastewater discharged from water closets or urinals for reuse. (2) Water reuse treatment shall produce a water quality conforming to SPS 382.70. (a) Periodic ~~and~~ maintenance shall be performed by qualified individuals. 1. Records shall be kept on dates of cleaning, replacement of components or parts, and when the system was shut down and reason for shut down. 2. The department shall be provided access to the water treatment system and records upon request. (3) Materials.1. Water distribution material shall comply with SPS 384.30(4)(e) and SPS 384.30(5). 2. Drain and vent piping shall comply with 384.30(2). 3. Treatment and holding tanks shall comply with 384.25.	Less restrictive regarding record keeping	8/7/18 - Left off here. *9/6/2018 – Motion to adopt.*

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
				4. Water treatment components shall have department approval or conform to an accepted standard. 5. Components shall be properly labeled as to the manufacturer and model number. (4) Installations. (a) 1. Water reuse systems shall not supply water to a potable water supply system. 2. A potable water supply connected to a reuse water system shall be protected by a high hazard cross connection control device, assembly or method. 3. A backwater valve shall be installed where the discharge from a reuse component is connected to a sewer. **Note:** For water reuse, refer to the appropriate requirements in ss. SPS 382.30, 382.36, 382.40, 382.41, 382.70 and this section.		
37 a3.	382.34 (17) (Note to DPD: to Renumber to align with drafting procedures .)	Create new section (17) Optimum service demand	DIS	[Renumber from 382.40 (8) (j)] (17) WATER TREATMENT (1) Water softeners. (a)1. Ion exchange water softeners used primarily for water hardness reduction that, during regeneration, discharge a brine solution shall be of a demand-initiated regeneration type equipped with a water meter or a sensor unless a wastewater treatment system downstream of the water softener specifically documents the reduction of chlorides. 2. Water softener sizing criteria shall be based on SPS 382.40 (6) and the manufacturer's specifications. 3. A bypass shall be provided to serve a water softener. 4. Water softeners shall meet the requirements of SPS 384. (2) REVERSE OSMOSIS. (a)1. Reverse osmosis water treatment systems shall be equipped with an automatic shutoff ~~valve~~ when the storage system is at capacity. 2. The connection of the drain shall be as specified in SPS 382.33. 3. Point of use systems supply connections shall conform to SPS 382.40(7)(h). 4. A bypass is prohibited on a reverse osmosis system used for patient care. (Consider additional section – if not specified, code shall supersede. (3) Disinfection. (a) Chlorine, Chloramine. Continuous. 1. The maximum residual disinfection level goals (MRDLGs) as per SPS 382.22, NR809.561, NR809.80: a. The maximum residual disinfectant concentration may not exceed 4.0 mg/L. b. The system shall be designed and installed to achieve the minimum inactivation rate ("CT" value). c. The maximum contaminant level of byproducts must not exceed 0.080 Trihalomethanes (TTHM) and 0.60 Haloacetic Acids (HAA5).		*9/6/2018 – Motion to adopt as amended.*

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	Rule provision	Issue/Reason for change	proposed by	Existing Language and Proposed change	Potential Impact/Cost	Comments/Status
				2. Each potable water system using chlorine disinfection shall be automatically and continuously disinfected by means of disinfectant and feeding equipment. 3. Disinfectant and filter aid feeding shall be conducted as follows: a. Liquid chemicals shall be fed into water circulation piping by means of a positive displacement feeder either at full strength or diluted with potable water. b. If a chemical that forms a residue is used, a two-tank system shall be used. One tank shall be used for mixing the solution and settling the precipitate. The clear liquid shall be decanted or siphoned into the second tank for distribution. 4. Feeders shall comply with all of the following: a. All disinfectant feeders shall be installed according to the manufacturer's directions and used only with the disinfectant recommended by the manufacturer. b. Feeders shall be automatic, easily adjustable, capable of providing the required chemical residuals, equipped with flow control valves upstream and downstream from the feeder, easily disassembled for cleaning and maintenance, durable, and capable of accurate feeding. c. Feeders shall be properly vented and incorporate anti-siphon safeguards to prevent disinfectant feeding in the event of the failure of recirculation equipment. d. Feeder pumps shall be electrically connected to the recirculation pump control circuit and have a separate disconnect switch. e. Feeders systems (pump, tanks, piping/tubing materials) shall be suitable for use in a potable water supply and shall be third party certified or approved by the department. f. Feeder systems shall be located to disinfect the entire hot water system per SPS 382.50. 5. Disinfectant shall comply with the following: a. The disinfectant must comply with NSF/ANSI 60 ~~International Standard for Drinking Water Additives~~. b. The disinfectant has an effective residual that can be measured easily and accurately by an approved field test procedure. c. The disinfectant is compatible for use with other chemicals normally used in the water treatment or is clearly identified as having a use limitation. d. The disinfectant does not impart toxic properties to the water when used according to the manufacturer's directions. e. The disinfectant does not create an undue safety hazard when handled, stored or used according to the manufacturer's directions. f. All chemicals used in the operation, and bulk storage tanks containing the chemicals shall be conspicuously labeled with the following information: i. Name of the product ii. The manufacturer's name and address iii. Active ingredients		

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	Rule provision	Issue/Reason for change	proposed by	Existing Language and Proposed change	Potential Impact/Cost	Comments/Status
				iv. Directions for use v. Hazardous ingredient warning vi. The U.S. environmental protection agency registration number (b) Ultraviolet (UV). 1. UV water treatment devices must conform to Class A criteria under the American National Standard Institute (ANSI)/National Sanitation Foundation (NSF) Standard 55 ~~– Ultraviolet Microbiological Water Treatment Systems.~~ 2. The capacity of the UV system shall comply with sizing criteria listed in SPS 382.40. 3. The water system downstream of the UV disinfection system shall be disinfected prior and immediately before activation. 4. Multiple parallel UV treatment systems may be installed to provide disinfection of the water systems. i. Single component failure can be expected. If a single UV treatment system is installed, a bypass may be installed. 5. This device must be installed with a 254 nm wavelength narrow band UV monitor. The monitor must de/energize the solenoid to stop the flow of water at a minimum UV dosage of 40,000 microwatt-seconds per square centimeter (40 millijoules) at a wavelength of 254 nm. 6. This device must be installed with automatic fixed flow rate control that prevent flow above the manufacturer's maximum rated flow over the operating pressure range ~~recommended~~ as specified by the manufacturer. 7. A solenoid valve must be installed on this device. 8. ~~Pretreatment of~~ The water supply ~~may be required per~~ shall meet the manufacturer's specifications. (4) Water Quality monitoring. (a) Chlorine, chloramine. 1. As per SPS 382.22 and NR809.565, a daily sample shall be taken at the nearest and the furthest point of ~~hot~~ water use from the injection location and tested for free chlorine residual. 2. A potable water disinfection system that has a properly functioning electronic monitoring device installed to control disinfectant residual shall be one of the following: a. Manually tested at least once a day for disinfectant residual and pH with an approved test kit, or b. Managed by a continuous monitoring system in compliance with a water management plan approved by the department. (b) Quarterly testing for disinfection by-products (DBP) shall be performed. 1. A test kit of a type approved by the department shall be maintained for testing the water pH; the disinfectant residual; and DBP. 2. Water samples should be taken during the day for accurate disinfection levels. A record shall be kept of the daily water quality test data. The data shall include: i. Location of sample		

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
				ii. Date and time sample taken iii. Sample result iv. Identification of person taking sample (b) Ultraviolet (UV). 1.Total coliform monitoring will be used to evaluate UV treatment effectiveness. The department, on a case specific basis, may require other parameters. The water quality monitoring frequency ~~will~~ shall be as follows: a. A water quality test shall be taken at startup, 2 weeks after startup, once annually, and after disinfection and flushing per SPS 382.40(8)(i). ~~b.~~ ~~i. At startup~~ ~~ii. 2 weeks after startup~~ ~~iii. Once annually thereafter~~ ~~c. Water quality tests shall be taken after disinfection and flushing per SPS 382.40(8)(i).~~ d. A separate sample should be taken upstream and downstream of the device. e. A record shall be kept on the water quality test results. 2. Water system owners ~~are encouraged, but not required,~~ to should routinely monitor effectiveness of the water treatment system. (5) The introduction of chemical additives to the potable water distribution systems of restaurants, schools and health care facilities and health care related facilities is required to be monitored by water operator-in-charge. (a) The operator-in-charge shall make an observation of the disinfection component operation and the disinfection/chemical residual in the storage tank and record the data on a weekly basis. (6) Records. 1. A record shall be kept on dates of cleaning, disinfection procedures, replacement of components or parts, and when the device was shutdown, and the reason for shutdown. 2. Representatives of the department and health services shall be provided access to the water treatment system and records upon request.		
37b.	382.34 (15) (e)	Clarification	DIS	(e) *Pump requirements.* 1. A pump or discharge line ~~serving~~ shall serve a containment tank for servicing purposes and shall comply with all of the following:		*3/20/18 – Motion to adopt.*
37 b1.	382.34 (18)	Implode protection	DIS	18. A vacuum relief valve shall be installed in each water treatment appliance that when measured from the bottom of the tank is located more than 20 feet above any faucet or outlet served by the appliance.	Minimal	

<table>
<tr><th colspan="7">SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing</th></tr>
<tr><th>NO.</th><th>Rule provision</th><th>Issue/Reason for change</th><th>proposed by</th><th>Existing Language and Proposed change</th><th>Potential Impact/Cost</th><th>Comments/Status</th></tr>
<tr><td>37c.</td><td>382.35 (3) (e) 2.</td><td>Re: Finished basements</td><td>DIS</td><td>2. A cleanout in a drain stack may serve as the cleanout at the junction of the building drain and building sewer, if the stack is within ~~5~~ 10 feet of where the building drain and building sewer connect.

[Note to DPD – Do not amend.]</td><td></td><td>3/20/18 – Motion to reject DIS recommendation and retain original 5 feet requirement.</td></tr>
<tr><td>38.</td><td>382.35 (3) (f)</td><td>With the advent of plastic pipe, the rule is outdated.</td><td>DIS</td><td>Stacks. Where a cleanout is provided in a drain stack, the cleanout shall be located ~~28 to 60 inches~~ above the lowest floor penetrated by the stack.

(Rule was written when cast iron was the prevalent material used in stacks and prevented fixture connections into the cleanouts.)</td><td></td><td>6/14/17 - Motion to adopt.</td></tr>
<tr><td>38a.</td><td>382.35 (6) Table 382.35</td><td></td><td>DIS</td><td>(6) CLEANOUT SIZE. (renumber) (a) Cleanouts and cleanout extensions shall be sized in accordance with Table 382.35 except as provided in (6) (b).
(6) (b) The replacement or repair of a non-public 6” sanitary sewer may be served by an existing 4” extension within the building.

<table><tr><th>Diameter of Pipe Served by Cleanout (inches)</th><th>Minimum Diameter Cleanout Extension (inches)</th><th>Minimum Diameter of Cleanout Opening (inches)</th></tr><tr><td>5</td><td>~~5~~ 4</td><td>4</td></tr><tr><td>6</td><td>~~6~~ 4</td><td>~~5~~ 4</td></tr></table>[Note to DPD – Do not amend table.]</td><td></td><td>3/20/18 – Left off here.

5/30/18 – Motion to not amend table and create an exception. (renumber intro to (a) and amend as shown, create (b) with exception language)</td></tr>
<tr><td>38 a1.</td><td>382.36 (3) Note</td><td>Repeal note due to new statute language (?)</td><td>DIS</td><td>~~Note: Where local discharge requirements are more stringent, stormwater plumb Ing systems may provide detention and treatment to comply with the local stormwater management plan.~~
DIS to seek legal counsel guidance relating to ACT 243 that amended ch. 281, Stats., (DNR statute), relating to stormwater management.</td><td></td><td>9/6/2018 – Motion to table.</td></tr>
<tr><td>38 a2.</td><td>382.36 (3) (d) 1. to 7.</td><td>Create new par./subd. (d) 1. to 5.

Adds manholes to include provision to remove suspended solids for longer</td><td>DIS and amended by PAC</td><td>(d) 1. Each compartment of a detention tank used for the reduction of total suspended solids shall be provided with ~~at least one~~ a manhole ~~opening~~ located over ~~either~~ at least one inlet ~~or~~ and at least one outlet. ~~opening.~~ ~~Additional manhole openings shall be provided such that no interior compartment wall of a tank is more than 4 feet from the edge of the manhole opening.~~ For compartments with multiple inlets, a manhole or a cleanout shall be provided shall be provided at additional inlets and outlets.
2. The distance between manhole openings serving the same compartment shall not exceed ~~25~~ 50 feet.
3. A manhole opening shall be not less than 23” in the least dimension.
4. A manhole shall terminate at or above ground surface and be of approved materials. Steel tanks shall have a minimum 2” collar for the manhole extensions permanently welded to the tank. The manhole extension on fiberglass tanks shall be of the same</td><td>Will result in upfront costs but will reduce long-term cost to owners for labor/maintenance/cleaning .</td><td>9/6/2018 - Motion to adopt as amended.</td></tr>
</table>

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
		detention tanks.		material as the tank and an integral part of the tank. The collar shall have a minimum height of 2". 5. Manhole risers ~~for interceptor tanks~~ shall be provided with a substantial, fitted, watertight cover of concrete, steel, cast iron or other approved material. 6. Manhole covers shall terminate at or above grade and shall have an approved locking device. 7. Tanks shall conform to provisions of s. SPS 384.25. DPD Ensure same language appears in SPS 382.34 (5) (c)1.		
38 a3.	382.36 (4) (b) 4.	Create 4.	DIS amended by PAC	4. Exterior subsoil drain connections to the storm sewer shall be above the ~~crown~~ top of the storm sewer or by use of a backwater valve.	Provides options.	*9/6/18 – Motion to adopt.*
38b.	382.36 (6) (a) (Note)	Create note	DIS	SPS 382.36 (6) (a) (Note) is created to read: Note: A culvert is considered plumbing only if a component of a designed storm water management system within a property.		*5/30/18 – Motion to adopt.*
38 b1.	382.36 (6) (g) 2.	Repeal due to new statute language (?)	DIS	~~2. Paved surfaces or parking lots serving as detention areas shall be limited to a design depth of 6 inches, unless otherwise limited by local ordinance.~~		***9/6/2018 – Left off here***
38c.	382.36 (7) (a) 2.		DIS	2. Where a ~~foundation~~ subsoil drain is subject to backwater, the drain shall be protected by a backwater valve or a sump with a pump.		*5/30/18 – Motion to adopt as shown.*
38d.	382.36 (7) (d) 1.		DIS	1. The connection of a stormwater leader discharging to a storm building sewer shall be made at or above the finished grade. 2. If ~~flush~~ indirect connection and at finished grade, a removable strainer ~~must~~ shall protect the inlet. The capacity of strainer shall be provided in accordance with s. SPS 382.36 (9) (b).		*5/30/18 - Motion to create 2. and amend as shown.*
38 d1.	382.36 (8) (a) 4. a.	Revise	DIS	a. Except as permitted under subd. 4. b. or c. the size of each sump shall be no smaller than 16 inches in diameter at the top, 14 inches in diameter at the bottom, and 22 inches in depth, but in no case smaller than the manufacturer requirements to ensure sufficient pump run time.		
38e.	382.36 (8) (b)	Create 3. under par (8) (b)	DIS	382.36 (8) (b) 3. Clearwater wastewater shall not discharge into a stormwater sump, ~~exception single family dwelling~~ except for one- and 2-family dwellings.	Minimal	*5/30/18 – Motion to adopt as shown.*
38 e1.	382.36 (8) (a) 4. (new)	Relocated from 382.33 (9) (f) 3. to 5. See #27a6.	DIS	Consider creating new section (8m) relating to elevator sumps (8m) (a) ELEVATOR SUMPS 1. A sump may not be located in an elevator machine room. 2. A drain serving an elevator pit that discharges to a sump shall have a submerged inlet constructed to maintain a minimum trap seal.		

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
				3. A sump located in an elevator pit may only receive storm or clear water waste from the elevator pit or the elevator machine room, or both.		
38f.	382.36 (8) (a) 4. c. See #38f1.	Repeal. High pump rates are required in elevator code.	DIS, with rec. by PAC	~~c. A sump located in an elevator pit may have a width or diameter of not less than 12 inches and a depth of not less than 12 inches.~~ 5/30/18 Discussion – sizes should be specified in the plumbing code and the elevator code should reference the plumbing code for plumbing related provisions. 5/30/18: Action Item - DPD (Helen) to discuss PAC recommendation w/Conveyance Advisory Committee. Complete. (For reference, also see ss. SPS 382.33 and SPS 318.1702.) Update: Conveyance Council is proposing to repeal these provisions form the elevator code.		*5/30/18 – Motion to table the proposed change.* *5/30/18 - Motion to create code language relating to sump sizes in an elevator pit and request elevator code council to create notes to refer to the plumbing code.*
38 f1.	382.36 (8) (a) 4. c. (new) See #38f.	New language is required in building code.	DIS	Add under new created section (8m)? 4. A sump located in an elevator pit shall be sized to accommodate the following: a. 30 gpm in a hoistway with one elevator; b. 50 gpm in a hoistway with two or three elevators or c. 80 gpm in a hoistway with four elevators.		
38 f2.	382.36 (8m) (a) 5. (new)	New language is required in building code.	DIS	5. A floor drain shall be provided at the entrance to each elevator door opening. a. The drain shall be capable to receive and discharge 80 gpm. b. The drain may discharge to the sanitary or clearwater drain system.		
38 f3.	382.36 (9) (b) 3.	Confusing. Both inlets and outlets are applicable.		'~~Inlet grates~~ Grates'. a. General. All inlets shall be provided with a well–fitted, removable grate of a thickness and strength to sustain the anticipated loads.	None	
38 f4.	382.36 (10g)	Create new section (10g)	DIS	(10g) CONTROLLED ROOF DRAINS. (a) *Sizing.* When control flow roof drain systems are installed the control flow system shall be sized and installed in accordance with the requirements in this section. (b) *Drain down.* Control flow drain systems shall drain down within 24 hours after the rainfall event. (c) Prohibited connections. Control flow roof drain systems may not be connected to secondary roof drain systems or clearwater waste systems. (d) *Discharge.* All control flow roof drain systems shall discharge in accordance with Table 382.38–1. (e) Rain fall rate. Control flow roof drainage systems shall be engineered based on the required rainfall rate per SPS 382.36(5) and utilizing a minimum 10 year-24 hours rain event.		

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
				(f) *Drains.* Control flow roof drains shall utilize the same drain as the engineered system. (g) *Overflow.* Secondary roof drain systems serving control flow roof drainage systems shall be sized for the 100-year, 24-hour storm event, including all cascading loads from higher elevation overflows. (h) *Roof Structures.* Roof structures served by control flow roof drainage systems shall be engineered in accordance with IBC Section 1611.3.		
38 f5.	382.36 (10r)	Create new section (10r)	DIS	(10r) SIPHONIC ROOF DRAINS. (a) *Sizing.* When siphonic roof drain systems are installed the siphonic system shall be sized and installed in accordance with the requirements in this section and ASPE/ASNI Technical Standard 45-2013. (b) *Drain down*. Siphonic roof drain systems shall drain down within 24 hours after the rainfall event. (c) *Prohibited connections.* Siphonic roof drain systems may not be connected to conventional roof drainage systems, secondary roof drain systems, control flow roof drainage or clearwater waste systems. (d) *Discharge.* All control flow roof drain systems shall discharge in accordance with Table 382.38–1. (e) *Rain fall rate.* Siphonic roof drain systems shall be engineered based on the required rainfall rate per SPS 382.36(5). (f) *Drains.* Siphonic roof drains shall be utilize the same drain as the engineered system. (g) *Overflow.* Secondary roof drain systems serving siphonic roof drain systems shall be sized for the 100-year, 24-hour storm event, including all cascading loads from higher elevation overflows or scuppers. (h) *Piping design.* Hydraulic designs shall be compiled by the Manufactures, ASPE/ANSI Technical Standard 45-2013, ASTM standard F 2021-06, and ASME A112.6.9-2005. (i) *Roof Structures.* Roof structures served by siphonic roof drain systems shall be engineered in accordance with IBC Section 1611.3. (j) [Need title.] A syphon break shall be provided downstream of a symphonic roof drain system. ASPE/ANSI 45-2013: Siphonic Roof Drainage		
38 f6.	382.36 (11)	Create new pars. Under section SECONDARY ROOF DRAINS.	DIS	(11) (d) *Rain fall rate.* Secondary roof drain systems flow roof drainage systems shall be sized for the 100-year, 24-hour storm event, including all cascading loads from higher elevation overflows or scuppers. (e) *Overflow drains.* Secondary overflow drains and overflow standpipes rim elevations shall not exceed 5” in height above the adjacent roof elevation served by the primary roof drains. (f) *Roof Structures.* Roof structures served by control flow roof drainage systems shall be engineered in accordance with IBC Section 1611.3.		

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
38g.	382.36 (12) (a) 4.		DIS	4. A ~~foundation~~ subsoil drain that discharges by gravity to a storm sewer shall be trapped. ~~A storm building drain serving a stormwater sump shall be trapped.~~ The trap shall be provided with cleanouts.	n/a	*5/30/18 – Motion to adopt as amended.*
38h.	382.36 (12) (b) 2. a.		DIS	2. a. Vents serving a solid covered sump shall terminate a minimum of one inch above finished floor or in accordance with s. 382.31 (16) except for subd. par. (d) 2. c. In lieu of a separate vent, a sealed sump may incorporate a radon vent connected to the subsoil drain or sump cover.	minimal	*5/30/18 – Motion to adopt as amended.*
38i.	382.36 (12) (b) 3. and 4.	Create new subdivisions	DIS	(b) 3. A storm or clearwater sump with a solid cover shall be vented. 4. A radon vent may serve a solid covered sump.		
38j.	382.36 (13) (b)	Review. Additional information needed to review plans. DPD to renumber per drafting rules.	DIS	*Plan information.* An operation and maintenance plan as required in par. (a) shall include at least all of the following information~~,~~ applicable to the system: 1. Accumulated solids or byproduct removal requirements. 1d. Pre-construction runoff volume. 1h. Post-construction runoff. 1p. Infiltration volume. 1t. Detention volume. 2. Identification of safety hazards.	minimal	
39.	382.365 (3) (a)	Confusing language. Infiltration is separate from reuse.	DIS	INFILTRATION SYSTEM DESIGN. (a) *Influent quality.* For stormwater and clearwater ~~infiltration~~ plumbing systems, the influent quality shall comply with the requirements in Table 382.70−1 for subsurface ~~infiltration and~~ irrigation. *6/4/17 Discussion: Infiltration is another section of rule.*		*6/14/17 - Motion to adopt.*
40.	382.365 (3) (b) 3.	New Alternate standard. DNR sets standards for discharge. Reflects technology changes in NR 151. DNR approval not required.	DIS	3. The installation of a stormwater infiltration system where engineered soil is incorporated in lieu of in situ soil shall comply with the following stipulation: a. The engineered soil composition shall be engineered to meet the specifications listed in the Wisconsin Conservation Practice Standard 1004 (Bioretention for Infiltration). b. The engineered filtering layer shall be located above any limiting factor identified within the soil report. *c.* The engineered soil shall not be less than 24 inches in depth, or 18 inches with ~~DNR~~ supporting documentation.	Allows flexibility. Less restrictive.	*6/14/17- Motion to adopt.*

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
41.	382.365 (3) (b) 1.	Incorporating DNR Wis. Conservation Practice Standard 1002 Repeals tables 382.365-1 to 3 and adopts 1002 and 1004 as referenced standards.	DIS	Except as provided in subd. 2., the minimum depth of suitable in situ soil for infiltration systems shall be ~~as specified in Table 382.365−1~~ 5 feet of suitable soil separation where the soil contains greater or equal to 10 percent and less than or equal to 20 percent fines or 3 feet of suitable soil separation where the soil contains greater or equal to 20 percent fines exist to separate the system from the highest groundwater elevation or bedrock. When groundwater mounding calculations affect the depth to seasonal groundwater, the depth of suitable soil shall be measured to the calculated elevation of mounded groundwater. 1002 standard is now requiring pits and is equivalent to SPS 385 soil testing. Standard 1002 - Site Evaluation for Storm Water Infiltration (Link to DNR website) Standard 1004 - Biotention for Infiltration (Link to DNR website)		*6/14/17 - Motion to Table 41-45 until next meeting.* *8/9/17 - Motion to table 41-45 until final copy of standard 1002 is available.* 5/30/18 – DPD to provide links to final versions of standards.
41a.	382.365 (3) (b) 2.	Create subd.3. 8/18 – delete DNR and replace with department	DIS	3. Where engineered soil is incorporated in lieu of in situ soil as an equivalent filtering layer, the following shall apply: engineered soil shall meet specifications listed in the Wisconsin Conservation Practice Standard 1004, The filtering layer shall be above any identified limiting factor, and the engineered soil shall not be less than 24 inches, or 18 inches with ~~DNR~~ department approval.		*5/30/2018 – Motion to table.*
42.	382.365 (4)	Codifying current practice	DIS	INSTALLATION. (a) Bioretention systems shall comply with Wisconsin Conservation Practice Standard 1004 & ? Renumbered to (b): *Orientation.* Except for subsurface irrigation systems, all of the following shall apply: Discussion: Wisconsin Conservation Practice Standard 1004 contains best practices specific construction requirements.		*8/9/17 - Table until final copy of standard 1002 is available.*
43.	382.365 (c)1.	Incorp. WI Conservation Practice Standards	DIS	The maximum hydraulic application rate shall be determined by soil analysis in accordance with ~~sub. (2) (b) and Table 382.365−2~~ Wisconsin Conservation Practice Standard 1002.		*8/9/17 - Table until final copy of standard 1002 is available.*
44.	382.365 (c)2.	Incorp. WI Conservation Practice Standards	DIS	The maximum hydraulic application rate shall be determined by field measurement using a nationally−accepted method and the correction factor as determined using Wisconsin Conservation Practice Standard 1002.~~Table 382.365−3~~. To determine the maximum hydraulic application rate, the measured infiltration rate at the infiltrative surface shall be divided by the correction factor as listed ~~in Table 382.365−3~~.		*8/9/17 - Table until final copy of standard 1002 is available.*
45.	382.365 (c)2.	Incorp. WI CP Standards. Relates to storms	DIS	Repeal Table 382.365-1 to 3.		*8/9/17 - Table until final copy of standard 1002 is available.*

<table>
<tr><th colspan="7">SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing</th></tr>
<tr><th>NO.</th><th>Rule provision</th><th>Issue/Reason for change</th><th>proposed by</th><th>Existing Language and Proposed change</th><th>Potential Impact/Cost</th><th>Comments/Status</th></tr>
<tr><td>45a.</td><td>382.37 (2) (g)</td><td>Revise</td><td>DIS</td><td>(g) A <u>permanent</u> supply of water shall be provided to wash down the drain receptor and pad. The water supply shall be:</td><td></td><td></td></tr>
<tr><td>45b.</td><td>382.37 (3) (a) <u>8.</u></td><td>Create new subd. 8.</td><td>DIS</td><td><u>8. A camping unit may discharge wastewater into a transfer container. The connection to the transfer container shall be made water tight. The transfer container shall be provided with a minimum 2-inch screened vent.</u></td><td></td><td></td></tr>
<tr><td>45c.</td><td>382.37 (3) (b) 2. <u>a. and b.</u></td><td>Revised, add new language, a. and b.</td><td>DIS</td><td>2. If water is provided to a campsite, individual approved backflow protection shall serve each hose connection in accordance with s. SPS 382.41.
<u>a. Wye connectors are prohibited.</u>
<u>b. Prior to infiltrating, pretreatment shall be performed for parking lot and new road construction.</u></td><td></td><td></td></tr>
<tr><td>45d.</td><td>382.37 (3) (b) <u>4. and 5.</u></td><td>Create new subd. 4. and 5.</td><td>DIS</td><td><u>4. The water connection to a camping unit may be plumbed direct if the fixtures comply with provisions of chs. SPS 382 and 384.</u>
<u>5. An indirect water connection may be made to a camping unit with approved cross connection control.</u></td><td></td><td></td></tr>
<tr><td>46.</td><td>382.37 (3) (b) 4.</td><td>New - Issues w/water supply quality & effective means to flush out system.</td><td>DIS, amended by PAC</td><td><u>A camping unit may discharge wastewater into a transfer container. The connection to the transfer container shall be made water tight. The transfer container shall be provided with a minimum 2-inch screened vent.</u></td><td>More restrictive</td><td>6/14/17 - Left off here.
8/9/17 - Motion to create language as shown.
8/9/17 - Motion to create note “See Appendix 382 for additional information.”
8/9/17 - Motion to add table 10.10.2.1.3 to appendix 382.</td></tr>
<tr><td>46a.</td><td>Table 382.38-1 <u>4m. and 9m.</u></td><td>Revise table, Add new uses 4m. and 9m.</td><td>DIS</td><td>Table 382.38 – 1
Allowable Discharge Points by Fixture or Specific Uses
<table>
<tr><th>Use or fixture</th><th>POWTS[a]</th><th>Municipal Sanitary Sewer</th><th>Municipal Storm Sewer</th><th>Ground Surface</th><th>Combined Sanitary–Storm Sewer</th><th>Subsurface Dispersal[i]</th></tr>
<tr><td><u>4m. Elevator door area drains</u></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr>
<tr><td><u>9m. Open public parking levels</u></td><td></td><td></td><td>X</td><td>X</td><td></td><td>X</td></tr>
</table></td><td></td><td></td></tr>
</table>

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
46b.	382.40 Section ?	New	DIS	Minimum emergency fixture water supply requirements are as follows. Eye wash --------- .4 gpm's Face wash --------- 3 gpm's Drench hose ---- --3 gpm's Drench shower – 20 gpm's		
46c.	382.40 (3) (b)	Revise	DIS	(b) *Hot water required.* Except as provided in subds. 1. And 2., hot water shall be provided to all plumbing fixtures, appliances and equipment used for personal washing, building maintenance, culinary purposes or laundering.		
46d.	382.40 (3) (d) 4.	Revise	DIS	4. The installation of each reduced pressure principle backflow preventer, reduced pressure principle fire protection ~~principle~~ backflow preventer, reduced pressure detector fire protection backflow preventer, spill resistant vacuum breaker and pressure vacuum breaker shall display a department assigned identification number.		
47.	382.40 (3) (e)	Code not able to keep pace w/changes to the date of the standard.	DIS	*Multipurpose piping system.* 1. Except as provided in subd. 2., a multipurpose piping system shall be designed and installed in accordance with this section and ~~the current~~ NFPA 13D. Consider additional language to address multifamily facilities. [DPD response: The term "current" standard may not be used in code. Each version of a standard needs to be reviewed and if adopted, year of standard must be specified.]		8/9/17 - No committee action required.
47 a1.	382.40 (3) (e) Check placement of Exceptions. Revise (e) 1.?	Create new exceptions	DIS	2. *Multipurpose piping system.* Exceptions. 1. Materials for multipurpose piping systems need to be acceptable under NFPA 13D or 384.30(4)(e) and 384.30(5). 2. A partial or single sprinkler per NFPA 13D may be installed in a dwelling unit not required to be sprinkled. 3. Limited purpose or limited area sprinklers may be installed in areas not required to be sprinklered. 4. 5 gpm shall be added onto the multipurpose calculations for each dwelling connected to a common water supply system. 5. A flow test shall be performed at the controlling sprinkler before the system is put into operation.	Less restrictive	
47 a2.	382.40 (5) Placement ?	Create new	DIS	The water supply system shall be protected from thermal expansion when a closed system is created.		
47a.	382.40 (5) (am)	Incorporate language from	PAC	Create SPS 382.40 (5) (am) (am) *Tankless water heaters.* [DPD & DIS to develop verbiage for intro.]		*9/19/17 - Motion to create SPS 382.40 (5)*

<table>
<tr><th colspan="7">SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing</th></tr>
<tr><th>NO.</th><th>Rule provision</th><th>Issue/Reason for change</th><th>Proposed by</th><th>Existing Language and Proposed change</th><th>Potential Impact/Cost</th><th>Comments/Status</th></tr>
<tr><td></td><td></td><td>SPS 325 (UDC) due to repeal of s. SPS 325.01 (2) (a) to (c).</td><td></td><td>1. The minimum flow rate of a tankless type water heater may be obtained by multiplying 0.65 by the calculated hot water gallons per minute demand, as determined by SPS 382 Tables 382.40–1b and 382.40–3, provided the heater will achieve a water temperature of 110° F at the terminal fitting or faucet.
2. The sizing method in ~~para~~ subd. ~~(a)~~ 1. may not be used for sizing a water heater serving a high-flow fixture, a hose bibb, a hydrant, or a fixture that is required to have a supply line with a diameter larger than one-half inch.
3. For the purposes of this subsection, “high-flow fixture" means a fixture with a flow rate of more than 4 gallons per minute, at 80 pounds per square inch, and a water velocity not exceeding 8 feet per second.

~~SPS 382.40 (5) (a) (note) Note: Residential exclusion see s. SPS 325.01 (2).~~</td><td></td><td>(am) and repeal 382.40 (5) (a) (note).</td></tr>
<tr><td>47b.</td><td>382.40 (5) (b) 1. a.</td><td>Add</td><td></td><td>a. A hot circulation system shall be independent of other systems.</td><td></td><td></td></tr>
<tr><td>47c.</td><td>Table 382.40−2</td><td>Revise table re: fixture types, Add new residential type</td><td>DIS</td><td>Table 382.40–2
Water Supply Fixture Units for Public Use Fixtures
<table>
<tr><th>Type of Fixture[a]</th><th>Hot</th><th>Cold</th><th>Total</th></tr>
<tr><td>Automatic Clothes Washer, Individual Commercial Type</td><td></td><td></td><td></td></tr>
<tr><td>Automatic Clothes Washer, Large Capacity Commercial Type</td><td></td><td></td><td></td></tr>
<tr><td>Automatic Clothes Washer, Residential Type</td><td>1</td><td>1</td><td>1.5</td></tr>
</table></td><td></td><td></td></tr>
<tr><td>48.</td><td>382.40 (7) (d)1.</td><td>Additional pressure need by manufacturers</td><td>DIS, amended by PAC</td><td>Except as provided in subd. 1. a. to ~~c~~ d., water supply systems shall be designed to provide at least 8 psig of flow pressure at the outlets of all fixture supplies.
d. Minimum pressure required by manufacturer for fixture, or appliance, or equipment to operate.</td><td></td><td>8/9/17 - Motion to adopt as amended.</td></tr>
<tr><td>48a.</td><td>382.40 (7) (d) 4.</td><td>Revise</td><td>DIS</td><td>4. If the pressure or water supply volume available from the water main or private water supply is inadequate by calculation to provide the minimum pressures specified in subd. 1., a hydropneumatic pressure booster system or a water pressure booster pump ~~shall~~ may be installed to increase the supply of water.</td><td></td><td></td></tr>
<tr><td>48b.</td><td>382.40 (7) (d) 4. a.</td><td>Revise</td><td>DIS</td><td>4.a. Each water pressure booster pump shall be provided with an automatic low pressure cut−off switch. The cut−off switch shall be located on the inlet side of the pump and shall be set to terminate the energy supplied to the pump when a positive pressure of less than 10 psig occurs. Pressure gauges shall be installed on the influent and effluent piping.</td><td>Minimal</td><td></td></tr>
</table>

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
48c.	382.40 (7) (e)	Revise	DIS	(e) Maximum velocity. A water distribution system shall be designed so that the flow velocity does not exceed 8 feet per second, except for combination sprinkler distribution piping as designed in par. (3) (e).		
49.	382.40 (8) (b) 10.	New – Water supply quality issues and inability to effectively to flush lines.	DIS, amended by PAC	Private water mains shall be provided with provisions for effective flushing of the system, at a minimum of 10 feet per second until clear. Note: See ch. SPS 382 appendix for further explanatory information. [Note to DPD.: Ensure notes refer to correct reference.]	More restrictive	*8/9/17 - Motion to amend provision as shown and add note in Appendix referring to Table 10.10.2.1.3.*
49a.	382.40 (8) (d) 3. b.	Revise	DIS	3.b. The minimum diameter of water distribution piping serving as a meter bypass ~~shall~~ may be one nominal pipe size smaller than the ~~meter~~ required distribution piping.		
50.	382.40 (8) (d) 7.	New - Issues w/water supply quality & effective means to flush system.	DIS, amended by PAC	Create: The main water distribution ~~systems~~ piping one nominal pipe size over code minimum shall ~~be~~ provided ~~with provisions~~ for effective flushing of the system at 8 feet per second. 8/9/17 Discussion: Hospitals inability to flush lines due to oversizing for future expansions resulting in bad water quality. Consider rule re: how long water can remain stagnant without flushing. Sediment builds up and high levels of lead showing up in drinking fountains.	More cost effective than to retrofit. [Need cost]	*8/9/17 - Motion to adopt as amended.* *8/9/17 - Motion to add table to 382 Appendix similar to Table 10.10.2.1.3 but revise to 8 feet per second flow rate for nominal pipe sizes.*
51.	382.40 (8) (i)	Protection of public health. Incorporates IPC & UPC model codes.	DIS, amended by PAC	*Flushing and disinfection of potable water supply systems.* 1. a. Before a newly constructed water supply system is to be put into use, the piping of the system shall be ~~filled~~ flushed with water and disinfected. ~~and allowed to stand for at least 24 hours. After 24 hours~~ Each water outlet shall be flushed beginning with the outlet closest to the building control valve and then each successive outlet in the system. The flushing at each water outlet shall continue for at least one minute and until the water appears clear and with no trace of disinfectant at the outlet. b. Each portion of a water supply system which is altered or repaired shall be flushed for at least one minute and until the water appears clear. *Check IPC and UPC provisions for disinfection for potable water supply systems. Review guidance documents for disinfection and incorporate into code.* *Could incorporate language from IPC 610.* 10/10/17: Discussion: Injecting chemicals into water system – chlorine gas – discussion between DIS and DNR. DNR has jurisdiction from tap. What is committee's recommendation re: plan review for additives into water system?		*8/9/17 – Motion to table until next meeting to identify standard.* *10/10/17 – Motion to adopt language as amended.*

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
				For abandoned well, put new in. Now have to treat water – DIS does plan review. Inspected to ensure proper operations, followed up with DNR, not aware with DHS inspections – may check for bacterial free. Health concerns, DIS finds out after the fact during routine inspections, added after plan review. Concern: 200 parts per million – safety concern for occupants inside a building.		
51 a1.	382.40(8) (j) DIS - Check proposed placement. (There's already a (j). Place before (j) or after (k)?)	New Code (DPD to correct numbering per drafting rules.)	DIS	(8) (j) *Water tanks*. 1. Pneumatic pressure tanks. Pneumatic pressure tanks shall conform to all of the following: a. Tanks shall conform to ch. SPS 384. b. Tanks shall be served by a pressure relief valve. c. Tanks shall be able to be isolated for maintenance, repair, or replacement and equipped with a drain valve by means of a control valve. d. Water calculations incorporating the size of a pneumatic pressure tank may use a 5-minute peak flow in gpm for the water supply system. The system shall be designed to minimize stagnation. e. Tanks shall be stamped or labeled showing the manufacturer's name, model number, the tank volume, year manufactured, and the allowable working pressure. 2. Storage tanks. a. Storage tanks shall be sized to turn over a minimum of once every three days. b. Tanks shall conform to s. SPS 384.25. 3. Protection. a. Storage tanks shall be constructed and maintained to protect the water supply in accordance with the following requirements: b. All water storage tanks and structures shall be watertight which exclude water, rain, snow, birds, animals, insects, and dust. c. Exterior translucent tanks shall be covered. 4. Potable water. Potable water may not be stored in a tank or compartment adjacent to nonpotable water when the two compartments are separated by a single wall. 5. Locks. Locks shall be provided on access manholes, inspection covers, fill pipe, fences, ladder cage bottoms, and any other measures deemed necessary to prevent trespassing, vandalism, and sabotage.		

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	Rule provision	Issue/Reason for change	proposed by	Existing Language and Proposed change	Potential Impact/Cost	Comments/Status
				6. Drains. ~~a. General drain discharge requirements.~~ Piping used for purposes, to drain a storage tank or structure, shall discharge to the ground surface through an air gap. The drain may discharge over a drainage inlet receptor, splash pad, or rip rap. 7. Overflow. a. Tanks or reservoir shall be provided with overflow piping and shall be brought down to within 12 inches above graded – normal surfaces. The pipe shall open downward over a drainage inlet, splash pad or rip rap. Interior tanks within the building structure shall provide overflow piping discharging to an approved clearwater receptor, or as approved by the department. b. The overflow outlet pipe shall be provided with a 4-mesh non-corrodible screen. c. The overflow outlet pipe shall be of approved water distribution as per SPS Table 384.30-8. d. The overflow outlet pipe shall be sized and of sufficient diameter to permit discharge flow in excess of the maximum fill rate of the inlet pipe flow. e. Overflow piping shall be visible at the discharge location. f. Storage tanks or reservoirs with more than one compartment and each compartment can be isolated from the rest of the tanks or reservoirs shall be provided with its own overflow pipe. 8. Inlet and outlet piping. a. Inlet and outlet piping from a tank or storage structure shall be sized in accordance with SPS 382.40(7). b. Piping shall be of approved materials in accordance with SPS Table 384.30-8 for locations within the building, above floor, SPS Table 384.30-7 for locations below grade and outside of the building foundation parameters. 9. Access. a. Water tanks or structures shall have convenient access for cleaning and maintenance. b. Manhole openings shall be fitted with a solid watertight cover which overlaps the framed opening and extends down around the opening frame a minimum of 2 inches. A water tight gasket shall be attached to the bottom side of the manhole cover. c. Manhole covers for buried tanks or structures shall be no less than 24 inches above a sloped finished grade. d. Manholes shall be locked at all times except when being used by authorized personnel. e. Inspection covers shall be water tight and lockable. f. Interior paints or coatings shall be NSF/ANSI Standard 61 certified.		

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
				10. Bypass Piping. Bypass piping shall be provided allowing the tank or reservoir to be taken out of service for maintenance and inspection purposes when directly connected to a ~~water service~~ well or municipal water service. 11. Vents. a. Storage tanks shall be vented to the atmosphere. The overflow pipe may not be considered a vent. b. Vents shall be constructed of water distribution materials as per SPS Table 384.30-8, or as approved by the department. c. Vents shall terminate above the top of the tank in a U-bend or vent cap with the opening or 24 to 36 inches above grade and covered with a 24-mesh stainless steel screen at a location that is secured. d. Minimum vent size shall allow an air flow consistent with water inflow and outflow rates. Minimum size shall be 2 inches. 12. Location. a. Exterior tanks may not be located within a flood plain or floodway or within 2 feet above the regional flood elevation. b. Grading the surrounding area shall be such that surface water will not stand within 50 feet of the storage tank. c. Storage tanks shall be located in an area that is accessible year-round. d. Contamination sources such as sewers, drains, fuel storage tanks, or standing water, shall be kept a minimum of 50 feet from the tank as approved by the department. e. The top roof of an exterior tank may not be less than 2 feet above the normal ground surface. 13. Controls. a. Atmospheric pressure tanks shall have a means for maintaining pressure within the building water distribution system. A hydro-pneumatic tank, pump facilities, or other reliable methods shall be provided to maintain system pressure. b. Manual valves shall be installed in the water distribution system to isolate tank and pump equipment from the water distribution system. c. Valves designated for operation of the storage tank shall be visibly recognized as being open or closed. Solenoid valves shall have a control system panel that will have indicators showing visual valve open or closed status. d. Drain valves shall be provided for maintenance purposes for access to the storage tank. e. Water supply inlet piping shall be provided with a control valve, check valve, or solenoid valve. f. High water fill valve or float valve shall maintain the storage tank levels to the minimum water storage required for use. A bypass to the fill valve shall be provided. g. Tank water levels shall be able to be observed by means of a sight level indicator.		

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	Rule provision	Issue/Reason for change	proposed by	Existing Language and Proposed change	Potential Impact/Cost	Comments/Status
				h. A pressure gauge shall be installed downstream of the storage tank and booster pumps. i. A thermometer or sensors shall be installed on the storage tank for water temperature monitoring purposes. 14. Water supply. a. The influent water supply to the storage tank shall be from an approved source and controlled to maintain the minimum and maximum water levels. b. The influent water supply shall terminate a minimum of 6 inches above the high water. 15. Pumps. a. Influent pumps providing potable water shall be operated at least once a week and provided with a check valve, sampling faucet, isolation valves, and pressure gauge. b. Booster pumps shall be installed according to the manufacturer specifications and s. SPS 382.40(7)(d)4. c. Effluent pumps shall be installed to provide continuous flow through the storage tank and connect to the water distribution system. d. A flow rate equal to the storage tank capacity shall be provided within a 24-hour period. e. The secondary pump piping shall have required check valves, pressure gauge, isolation valves, and sampling faucet installed on the system. f. The effluent water from the storage tank to a booster pump shall be provided with a shut off for maintenance purposes. 16. Disinfection. Except for surge use, continuous water treatment is required for storage tanks greater than 200 gallons through a constant water flow through the potable water storage tank. 17. Labeling. All piping and control valves serving the storage tank water system shall be labeled in accordance with SPS Table 382.40-1a for specific use. ~~They~~ Labels shall be grey, triangular with 4-inch sides, and labeled as "Potable Water, Storage Tank". 18. Storage tank inspections. a. The interior and exterior of water storage facilities shall be regularly inspected and maintained in accordance with NR 810.14. b. Inspections of storage facilities 10,000 gallons or greater shall be by a professional tank inspection firm or by a registered professional engineer. c. Maintenance shall include removal of sedimentation and biofilm, repairs as necessary to maintain good working condition.		

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
				d. All storage facilities shall be inspected a minimum of every 5 years, unless otherwise approved by the department. e. Inspections of vent and overflow screens and hatches shall be conducted once per year. 19. Records. a. A record shall be kept on dates of cleaning, relining, and replacement of components or parts. b. Department representatives shall be provided access to the water storage system and records upon request.		
51 a2.	382.41 (1) Note	Correct language notes to match DNR current code	DIS	Note: The Department of Natural Resources governs the operation and design of community water systems and under s. NR ~~811.09~~ 810.15 requires the supplier of water to develop and implement a comprehensive cross connection control program.	None	
51 a3.	382.41 (2) (a)	Amend for consistency.	DIS	All methods, devices, and assemblies ~~and mechanisms~~ intended to protect water ~~supplies relative to~~ supply systems from cross ~~connection or backflow~~ connections shall be of a type recognized and approved in accordance with ch. SPS 384 and as described in sub. (4).	n/a	
51 a4.	382.41 (3) (b) 5.	DNR does not allow threads on sample taps. Individual dialysis machines are provided with cross connection control through another process. Language was proposed for 382.50 also.	DIS	5. A cross connection ~~shall~~ may not be considered to exist at the hose threaded outlet installed for the sole purpose of any of the following: a. Draining a water supply system or any portion thereof~~;~~. ~~b. Obtaining water quality samples of the water supply system or any portion thereof; or~~ bm. Connecting individual portable dialysis machines when enclosed in a lockable box. c. Connecting individual residential-type automatic clothes washers.	n/a	
51 a5.	382.41 (3) (b) 6. a. Note	Correct note to match	DIS	Note: The interconnection of a public water supply system and another source of water is addressed in ss. NR ~~811.09~~ 811.06 and 811.07 and must be approved by the Department of Natural Resources.	None	

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
		current DNR code				
51 a6.	382.41 (3) (b) 6. b.	Revise to clarify confusing language	DIS	b. Except as provided in subd. 7., a low hazard situation shall be considered to exist for the connection of a piping system, including ~~but not limited to~~ automatic fire sprinkler systems, standpipe systems, and systems for processing purposes~~, which provides potable~~ that provide water for nonrequired potable water use~~s~~.	None	
51 a7.	382.41 (3) (d) Create 1. and 2.	Revise to clarify confusion whether a cross connection control method, device, or assembly could be bypassed.	DIS	*Prohibitions.* 1.The use of a toxic solution as a heat transfer fluid in single−wall heat exchanger for potable water is prohibited. 2. A cross connection control method, device, or assembly may not be bypassed without a cross connection control method, device, or assembly of at least equal protection.	n/a	
51 a8.	382.41 (4) (b) 1.	Update code to reflect terminology in the adopted standard.	DIS	Except for a deck−mounted device, ~~a pipe applied~~ an atmospheric type vacuum breaker shall be installed such that the bottom of the device or the critical level mark on the device is at least 6~~"~~ inches above all of the following:	n/a	
51 a9.	382.41 (4) (b) 2.	Update code to reflect terminology in the adopted standard.	DIS	A deck−mounted ~~pipe applied~~ atmospheric type vacuum breaker shall be installed such that the bottom of the device or the critical level mark on the device is at least one inch above all of the following:	n/a	
51 a10.	382.41 (4) (k) 2.	Update code to reflect terminology in the adopted standard.	DIS	~~A pressure vacuum breaker assembly shall be located only outside.~~ Due to the probability of water discharge from the atmospheric air inlet valve, a pressure vacuum breaker assembly shall be installed in a location where the discharge does not cause damage. Note to DPD: Repeal (4) (k) 2. and create (4) (k) 2m.	n/a	
51 a11.	382.41 (5) (h)	Update code to reflect terminology in the adopted standard.	DIS	No control valve may be placed downstream from ~~a pipe applied~~ an atmospheric type vacuum breaker or a laboratory faucet backflow preventer.	n/a	

NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
51 a12.	Table 382.41-1	Revise Table (The titles in green are superseded or withdrawn and will be updated to match tables in SPS 381.)	DIS	**Table 382.41-1** **Acceptable Cross Connection Control Methods, Devices, or Assemblies**		

Methods or Assemblies of Cross Connection Control (Standard)	Situations and Conditions							
	Backpressure				Backsiphonage			
	Low Hazard		High Hazard		Low Hazard	High Hazard		
	Continuous Pressure	Noncontinuous Pressure	Continuous Pressure	Noncontinuous Pressure	Continuous Pressure	Noncontinuous Pressure	Continuous	Noncontinuous
Air-gap Fittings for use with Plumbing Fixtures, Appliances, and Appurtenances (ASME A112.1.3)					X	X	X	X
Air Gaps (ASME A112.1.2)	X	X	X	X	X	X	X	X
Atmospheric Vacuum Breaker (CAN/CSA B64.1.1)						X		X
Backflow Preventers with an Intermediate Atmospheric Vent (ASSE 1012)	X	X			X	X		
Barometric Loops					X	X	X	X
Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies	X	X						
Dual Check Valve Type with Atmospheric Port Backflow	X	X			X	X		

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing															
NO.	Rule provision	Issue/Reason for change	proposed by	Existing Language and Proposed change										Potential Impact/Cost	Comments/Status
				Preventer (CAN/CSA B64.3)											
				Hose Connection Backflow Preventers (ASSE 1052)	X[a]	X	X[a]	X	X[a]	X	X[a]	X				
				Hose Connection Vacuum Breakers (CAN/CSA B64.2 and B64.2.2)	X[a]	X	X[a]	X	X[a]	X	X[a]	X				
				Hose Connection Vacuum Breakers (ASSE 1011)	X[a]	X	X[a]	X	X[a]	X	X[a]	X				
				~~Pipe Applied~~ Atmospheric Type Vacuum Breakers (ASSE 1001)						X		X				
				Pressure Vacuum Breaker Assembly (ASSE 1020)					X	X	X	X				
				Reduced Pressure Principle Backflow Preventers ~~And~~ and Reduced Pressure Principle Fire Protection ~~Principle~~ Backflow Preventers (ASSE 1013)	X	X	X	X	X	X	X	X				
				Reduced Pressure Principle Backflow Preventer (CAN/CSA B64.4)	X	X	X	X	X	X	X	X				
				Spill Resistant Vacuum Breaker (ASSE 1056 and CAN/CSA B64.1.3)					X	X	X	X				

NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS

Vacuum Breaker (CAN/CSA B64.1.2)					X	X	X	X	

[a] See limitation listed under s. SPS 382.41 (4) (c) 1. a.

NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
51 a13.	Table 382.41-2 (left-side column)	Revise/add to table	DIS	**Table 382.41-2** **Acceptable Cross Connection Control Methods, Devices or Assemblies for Specific Applications** **Methods or Assemblies (Standard)** ~~Water Closet Flush Tank Ball Cocks (ASSE 1002)~~ Anti-siphon fill valves for water closet tanks (ASSE 1002) Commercial Dishwashing Machines (ASSE 1004) 1001, ASSE 1011, ASSE 1020, ASSE 1052, or ASSE 1056. Wall Hydrants, Frost Proof Automatic Draining Anti–Backflow Type (ASSE 1019), types A, ~~or~~ B, or C		
51 a14.	382.41 (3) (b) 5. c.	Revise	DIS	Connecting individual residential-type automatic clothes washers. OR Connecting individual ~~residential automatic clothes washers~~ home laundry equipment. OR Connecting ~~individual residential~~ automatic clothes washers.		
51 a15.	382.41 (3) (b) 6. b.	Repeal (b) 6. b. and incorporate note into code language. Note to DPD: renumber 6. b. (Note) to 6. bm. and amend.	DIS	~~(b) 6. b. Except as provided in subd. 7., a low hazard situation shall be considered to exist for the connection of a piping system, including but not limited to automatic fire sprinkler systems, standpipe systems, and processing purposes, which provides potable water for nonrequired potable water uses.~~ (b) 6. ~~Note~~ bm. Cross connection control devices used in conjunction with automatic fire sprinkler systems ~~are to~~ 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.		
51 a16.	382.41 (4) (g) 2.	Repeal	DIS	~~A double check backflow prevention assembly and a double check detector assembly backflow preventer 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.~~		
51 a17.	382.41 (5) (f)	Revise	DIS	The installation of a reduced pressure principle backflow preventer, a reduced pressure principle fire protection ~~principle~~ backflow preventer, ~~a reduced pressure detector backflow preventer,~~ a reduced pressure detector fire protection backflow prevention		

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
				assembly, a double check backflow prevention assembly, a double check fire protection backflow prevention assembly, a double check detector fire protection backflow prevention assembly ~~backflow preventer~~, a pressure vacuum breaker assembly, and a spill resistant vacuum beaker shall conform to all of the following limitations:		
51 a18.	382.50 (2) (b) 1. a.	Create 1. a.	DIS	1. 'Spouts'. Lavatories and sinks accessible to patients shall have the water supply spout mounted so that its discharge point is a minimum distance of 5" above the flood level rim of the fixture. a. Spouts shall have laminar flow in facilities listed in par. (3) (b).	Minimal	
51a.	382.50 (2) (b) 2. a. and b.	Renumber to a. and create b. (Related provision: See 51b.)	DIS	382.50 (2) (b) 2. 'Actions.' All fixtures used by medical and nursing staff, ~~and all lavatories used by~~ patients or residents, and food handlers shall be equipped with valves that can be operated without the use of hands. a. Where wrist blade handles are used for this purpose, the handles shall not exceed 4 1/2" in length, except handles on scrub sinks and clinical sinks shall be no less than 6" long. b. A single lever faucet handle may be used in lieu of wrist blades. 5/30/18 Discussion: Per DIS, DSPS does not have an MOU with DHS and is developing a guidance document.		*5/30/18 – Motion to add "residents" and adopt as amended.*
51b.	382.50 (2) (b) 2. c.	Create c. (Related: See 51a.)	DIS	c. Where tempered water is provided at lavatories accessible to patients, the flow of the hot water shall be calculated to evacuate the water distribution piping from the faucet to the recirculated hot water supply.	Minimal	
51c.	382.50 (3) (a) 2.	All services are required as written	DIS	(3) WATER SUPPLY SYSTEMS. (a) *Hospital water supply systems.* Water supply systems serving hospitals shall comply with all of the following: 1. All hospitals shall be provided with at least 2 water services. Whenever more than one water main is available, the connections shall be made to different water mains. 2. Each water service connection shall adequately serve the total building water supply demand as specified in s. SPS 382.40(7), except for additional services supplying water to additions deemed non-essential as defined in a hospital water management plan.	Less restrictive	
51d.	382.50 (3) (b) intro. and 1.	Revise 1. and create a. and 1. to 5. (DPD to renumber in accordance with drafting rules)	DIS	b) *Hospital, community−based residential facility, inpatient hospice, and nursing home water supply systems*. 1. Water supply systems serving a hospital, community−based residential facility, inpatient hospice, ~~and~~ nursing home, or additions to the facilities without a building division as defined by the department of health services [need the specific DHS provision], shall comply with all of the following: a. Facilities with a population exceeding 250 occupants shall have a water management plan. The management plan shall include all of the following:		

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
				1. An emergency water contingency plan on the loss or contamination of the water supply. 2. A bacterial control plan. 3. The emergency and routine disinfection procedures. 4. The identity of the individual responsible for the water quality. 5. The provisions for the periodic flushing of the water supply system.		
51e.	382.50(3) (b) 7. b.	Prevent adult day care patients from being burned	DIS	b. A water distribution system may not be designed, installed, or maintained so that the ~~maximum temperature to~~ fixture fitting outlets accessible to patients of an adult day care exceeds 115 degrees F. Note to DPD: Renumber (intro.) to a. in order to create b.	Minimal	
51f.	382.50(3) (b) 7. c.	Create new subd. Reduce costs. Saves customers the expense of adding thermostatic mixers after they have already purchased limit stop faucets that do not perform.		c. The use of limit stops in faucets to achieve a maximum temperature of 115 degrees F is prohibited.	Cost-savings for customers.	
52.	382.50 (3) (b) 9. (See also #53	Issues w/ bacterial control. Relates to HC facilities. Goal is to minimize/prevent stagnation of water. (See related #53 & 57b)	DIS, amended by PAC	Create 382.50(3) (b) 9. and 382.40 (8) (i) 5. 9. Dead ends within the water distribution systems cannot exceed 10 pipe diameters. Amend 381.01 (68) definition for "dead end" and create 2. 1.a branch leading to…(no amendment to 1.) 2. Any portion of the water distribution system terminating by means of a plug, cap or closed fitting and with no outlet. 8/9/17 Discussion: Consider stagnation prevention in healthcare section. Consider defining & eliminating dead ends.	Major - Long-term benefit [Need cost]	*8/9/17 - Motion to amend definition for 'dead ends' as shown.* *8/9/17 - Motion to create 382.40 (8) (i) 5. and 382.50 (3) (b) 9. to read as shown.*
53.	382.50 (3) (b) 10.	Issues of bacterial control. CBRFs under DHS rule.	DIS, amended by PAC	Create 382.50(3) (b) 10. 10. Water outlets accessible to patients shall have laminar flow. ~~without the use of an aerator.~~	Major	*8/9/17 - Left off here. 9/19/17 - Motion to create SPS 382.50 (3) (B) 10. and adopt as amended.*

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
		(See related #52 & 57b.)				
54.	382.50 (3) (b) 4.	greater legionella control (See related: #54a.)	DHS to DIS, amended by PAC	Amend 382.50 (3) (b) 4. a. A hot water distribution system shall be under constant recirculation to provide continuous hot water at each hot water outlet, except that uncirculated hot water distribution piping may not exceed 25 ~~3~~ feet in developed length. b. A hot water distribution system using temperature maintenance for bacterial control shall be under constant recirculation to provide continuous hot water at each hot water outlet, except that uncirculated hot water distribution piping may not exceed 3 feet in developed length. Discussion: Relates to healthcare facilities. This is a national push, new order out re: to Legionella, guidelines for hospitals as recommended by CDC. Will require more piping for cooling of pipes. When running water, users doesn't wait for water to get hot enough (140^0F) to stagnate the growth of legionella, which causes illnesses in patients – often seen as pneumonia. DIS rationale for 3' recommendation: Most using copper pipes, water would get hot enough within 3 feet. Increased costs could be offset by mitigating costs to treat illnesses. Action items: 9/19/17: DIS recommendation is to amend 4. a. from 25 feet to 3 feet. (Committee did not make motion to adopt 3-foot recommendation.) Need data from DIS to justify recommendation. Need data from other states, CDC, and NIH relating to legionella control measures 10/10/17: When adding daisy-chain, circuit setters, pumps, etc. – if not balanced, have more piping than before, making it difficult to maintain and balance.	Significant impact, added expense [Need costs and data to support proposal]	*9/19/17 - Motion to table until next meeting pending supporting data & information.* *10/10/17 - Motion to create 328.50 (3) (b) 4. b.*
54a.	382.50 (3) (b) 4. c.	Create c. (See related: #54)	DIS	c. Control valves shall automatically regulate the temperature of the water supply of the distribution system that exceeds 140 degrees to patient areas.		
55.	382.50 (3) (b) 5.	Temperature maintenance issues	DIS	Water provided to patient showers, therapeutic equipment and all types of baths shall be installed with control valves that are pressure balanced and thermostatically controlled which automatically regulate the temperature of the water supply to the fixture fitting outlet within a temperature range of 110^0F to 115^0F. Such control valves shall automatically reduce flow to 0.5 gpm or less when the water supply to the fitting outlet exceeds 115^0F or when loss of cold water pressure occurs.	More cost initially, offset w/lower maintenance cost. Reduces staff time.	9/19/17 - Left off here. *10/10/17 - Motion to adopt as proposed.*

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
				Discussion: Currently 3 choices. Maintenance challenges to readjust. Not practical. Eliminate pressure balance.		[Note to DPD: Need to revise appendices accordingly.]
56.	382.50 (3) (b) 6.	Codifying current practice. ASHRAE has new standards and needs further review. Create note. Section in Yellow added after 10/10/17 motion. Revision added under 56a. Note to DPD: Repeal b., create bm. to e., and renumber c. to f.	DIS	Hot water distribution systems shall be installed and maintained to provide bacterial control by one of the following methods: a. Water stored and circulation initiated at a minimum of 140^0F and with a return of a minimum of 124^0F. ~~b. Water chlorinated at 2 mg/L residual.~~ ~~**Note:** Additional information may be contained in ASHRAE Guideline 12–2000, Minimizing the Risk of Legionellosis Associated with Building Water Systems. This standard is published by the American Society of Heating, Refrigerating and Air–Conditioning Engineers (ASHRAE); 1791 Tullie Circle, N.E., Atlanta, GA 30329, phone: (800) 5–ASHRAE or (404) 636–8400 ext. 507; fax: (404) 321–5478; e–mail: orders@ashrae.org; or online at www.ashrae.org.~~ ~~c.~~ f. Another disinfection system approved by the department but may not include a heat recovery system. Note: See explanatory information for further information. Discussion: "Shocking system". H^2O chlorinated at 2 mg/L is used for hyper-chlorination of water supply system prior to being put in use, not for maintaining bacterial control. Could keep in guidance documents for approved variances or could incorporate into appendix. Section shown as struck is not being used. ASHRAE has new standards. ASHRAE has been revised and needs further review before being cited. - Recommend use of redundant systems. - Guidance Documents to be incorporated in appendices, in addition to a new guidance document relating to Chloramines. - [Note to DPD: Add related guidance documents in appendix. i.e. 0.5 Chlorine Residual Disinfection, Chloride Dioxide Disinfection, Copper-Silver Ion Disinfection, UV Disinfection, Chloramines (new)] DONE - Click HERE to review plumbing related guidance documents posted on DSPS website.	Significant impact - added expense [Need costs and data to support proposal]	*10/10/17 - Motion to adopt with added note.*

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
56a.	382.50 (3) (b) 6. bm. to e.	Create bm. to e. (See related: #56)	DIS	bm. Chloride dioxide. cm. Ultraviolet. d. Copper-silver ion. e. Chloramine. ~~c.~~ f. Another disinfection system approved by the department but may not include a heat recovery system.		
57.	382.50 (3) (b) 8.	Clarification	DIS, amended by PAC	~~Except as provided in subd. 7., a~~ A water distribution system may not be designed, installed, and maintained so that the maximum temperature ~~to fixture fitting outlets~~ exceeds 180^{0}F. The hot water distribution system ~~to patient areas~~ shall be provided with an automatic control valve to ensure complete shut-down of flow if the temperature exceeds 180 degrees F. ~~protected by a fail-safe control valve.~~ 10/10/17 Discussion: Clarify that failsafe needs to be in place. Prevents hot water creep/malfunction.		*10/10/17 - Motion to amend as shown.*
57a.	382.50 (3) (b) 7.		PAC	**~~7. A water distribution system may not be designed, installed and maintained so that the maximum temperature to fixture fitting outlets~~** Water discharged from a fixture fitting outlet accessible to patients may not ~~exceeds~~ exceed 115°F.		*10/10/17 - Motion to amend as shown.*
57b.	382.50 (3) (b) 11.	Create 11. (See related: #52, 53, 57c)	DIS	11. Hot water bacterial controlled distribution piping shall be labeled with bacterial control measure when other than thermal disinfection is used.	Minimal	
57c.	382.50 (3) (b) 12.	(See related: #52, 53, 57b)	DIS	12. Where a dialysis box~~es may be~~ is installed in a patient room or a patient toilet room, all of the following shall apply: a. The dialysis box~~es~~ shall be lockable. b. Hose threads located within a lockable dialysis box used exclusively for the connection of portable dialysis equipment do not require a cross connection control device. c. A receptor located within a dialysis box shall be sealed when not in use.		
57d.	Table 382.50-1 Title	Revise Title in table - 2nd column under heading "Type of Spout"	DIS	**~~Gooseneck or provide a~~ 5–inch Minimum ~~clearance~~ Clearance**		

<table>
<tr><th colspan="7">SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing</th></tr>
<tr><th>NO.</th><th>Rule provision</th><th>Issue/Reason for change</th><th>proposed by</th><th>Existing Language and Proposed change</th><th>Potential Impact/Cost</th><th>Comments/Status</th></tr>
<tr><td>57e.</td><td>Table 382.50-1</td><td>Create new section in table</td><td>DIS</td><td>Table 382.50 – 1
Spouts and Actions Required in Health Care and Related Facilities
<table>
<tr><th>Fixture Location</th><th>Standard</th><th>5-inch Minimum Clearance</th><th>Hand</th><th>Wrist</th><th>Foot, Knee, or Electronic Sensor</th></tr>
<tr><td>COMMON AREAS</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>Day rooms</td><td></td><td>X</td><td></td><td>X</td><td>X</td></tr>
<tr><td>Hallways</td><td></td><td>X</td><td></td><td>X</td><td>X</td></tr>
<tr><td>Patient waiting area</td><td></td><td>X</td><td></td><td>X</td><td>X</td></tr>
<tr><td>Vestibule waiting area</td><td>X</td><td></td><td></td><td></td><td></td></tr>
</table></td><td></td><td></td></tr>
<tr><td>57f.</td><td>382.51 (2) (e)</td><td>Create (e)</td><td>DIS</td><td>(2) (e) The entire water supply system shall be designed for periodic flushing.</td><td>Minimal</td><td></td></tr>
<tr><td>58.</td><td>382.41 (5) (d) 1.</td><td>Alternate standard. Creation of “b” is an exception to existing code.</td><td>DIS, amended by PAC</td><td>a. A cross connection control device or cross connection control assembly may not be located in uninhabitable spaces susceptible to flooding.
b. A cross connection control device or cross connection control assembly that does not incorporate a vent port may be installed in an uninhabited location susceptible to flooding.

10/10/17 Discussion: If vent, can be in pit. Flooding of control device is not a factor in the operation for the protection of potable water.</td><td>Less restrictive.</td><td>10/10/17 - Motion to adopt.
3/20/18 - Ryan to create definition for method and better definition for cross connection control assembly.</td></tr>
<tr><td>58a.</td><td>382.60 (2)</td><td>Venting</td><td>DIS</td><td>382.60 (2) INSTALLATION. (a) Piping hangers and anchors shall be securely attached to the building’s structure at intervals to support the piping and its contents, but not at intervals greater than those specified in Table 382.60, except PVC used for venting may have a maximum horizontal spacing of 5 feet. The connection of drain piping to a fixture or appliance shall be considered a point of support.

5/30/18 – Discussion of incident where J-hooks weren’t spaced every 4’ and failed/broke when full of water. Hangers used should anticipate contents and load as specified in rule.</td><td></td><td>5/30/18 - Motion to adopt.</td></tr>
<tr><td>59.</td><td>382.70 (4)</td><td>Alternate standard. Infiltration is covered within 382.365</td><td>DIS</td><td>Table 382.70-1 Number 8: Subsurface ~~infiltration and~~ irrigation, using reuse as the source [c]

10/10/17 Discussion: SPS 382.70 is total performance-based provision.</td><td></td><td>10/10/17: Motion to adopt.</td></tr>
</table>

SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
		EPA requirements relating to Legionnaires		Future Discussion: Need to look at sensors on water faucets. How long should flow remain on? Should be enough to replace stagnant water. Hot vs. Cold water considerations. May need to provide a calculation. Ex. How many gpm needed for 3' of pipe?	Need Data	Note to DIS: Need specific EPA directive. Recommendation or requirement?

SPS 383 Private Onsite Wastewater Treatment Systems						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
	383.71 (3) and (5) (d)	Act 59	DPD	Amend (w/delayed implementation date) pursuant to Wis. Act 59 elimination of the Wisconsin Fund		[No committee action required]
	383.71 (7) (c)	Repeal (obsolete)	DPD			[No committee action required]

SPS 384 Plumbing products						
NO.	**Rule provision**	**Issue/Reason for change**	**Proposed by**	**Existing Language and Proposed change**	**Potential Impact/Cost**	**Comments/Status**
1.	Table 384.10	Revise row 3	DIS	**Table 384.10** **SUBMITTALS TO DEPARTMENT** Product Categories 3. Health care plumbing <u>and laboratory</u> appliances Discussion: DIS explained ways to gain product approval 1. Product is listed 2. Alternate approval – requires product approval 3. Submission per Table 384.10 4. Voluntary submission under SPS 384.10 (3)		5/30/18 – Motion to adopt.
1a.	Table 384.10	Revise row 7	DIS	**Table 384.10** **SUBMITTALS TO DEPARTMENT** Product Categories 7. ~~Wastewater~~ <u>Water</u> treatment devices used to meet the requirements in s. SPS 382.70		
2.	384.10 (3) (d)		DIS	384.10 (3) (d) 1. The department ~~shall~~ <u>may</u> review a submittal under this subsection with input from a technical advisory committee.		5/30/18 – Motion to table.

<table>
<tr><th colspan="7">SPS 384 PLUMBING PRODUCTS</th></tr>
<tr><th>NO.</th><th>RULE PROVISION</th><th>ISSUE/REASON FOR CHANGE</th><th>PROPOSED BY</th><th>EXISTING LANGUAGE AND PROPOSED CHANGE</th><th>POTENTIAL IMPACT/COST</th><th>COMMENTS/STATUS</th></tr>
<tr><td></td><td></td><td></td><td></td><td>[This provision was addressed in the POWTS rule project.]</td><td></td><td>[Recommendation withdrawn. [No further action required.]</td></tr>
<tr><td>2a.</td><td>Table 384.11</td><td>Revise

(The items in green are superseded by the CSA B64-11 series.)</td><td>DIS</td><td>
Table 384.11
DEVICE LISTINGS
<table>
<tr><th>Device</th><th>Referenced Standard</th></tr>
<tr><td>Anti-siphon Fill Valves ~~(Ballcocks)~~ for ~~Gravity~~ Water Closet ~~Flush~~ Tanks</td><td>ASSE 1002</td></tr>
<tr><td>Atmospheric Type Vacuum Breakers</td><td>ASSE 1001</td></tr>
<tr><td>Atmospheric Vacuum Breakers</td><td>CAN/CSA B64.1.1</td></tr>
<tr><td>Backflow Preventers for Beverage Dispensing Equipment</td><td>ASSE 1022</td></tr>
<tr><td>Backflow Preventer with Intermediate Atmospheric Vent</td><td>ASSE 1012</td></tr>
<tr><td>Backflow Prevention Devices for Hand-Held Showers</td><td>ASSE 1014</td></tr>
<tr><td>Chemical Dispensing Systems</td><td>ASSE 1055</td></tr>
<tr><td>Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies</td><td>ASSE 1015</td></tr>
<tr><td>Double Check Detector Fire Protection Backflow Prevention Assemblies</td><td>ASSE 1048</td></tr>
<tr><td>Double Check Valve Backflow Preventers</td><td>CAN/CSA B64.5</td></tr>
<tr><td>Dual Check Valve Backflow Preventers with Atmospheric Port</td><td>CAN/CSA B64.3</td></tr>
<tr><td>Hose Connection Backflow Preventers</td><td>ASSE 1052</td></tr>
<tr><td>Hose Connection Vacuum Breakers</td><td>CAN/CSA B64.2</td></tr>
<tr><td>Hose Connection Vacuum Breakers</td><td>ASSE 1011</td></tr>
<tr><td>Laboratory Faucet Backflow Preventers</td><td>ASSE 1035</td></tr>
<tr><td>Laboratory Faucet Type Vacuum Breakers</td><td>CAN/CSA B64.7</td></tr>
<tr><td>Pressure Vacuum Breakers</td><td>CAN/CSA B64.1.2</td></tr>
<tr><td>Pressure Vacuum Breaker Assembly</td><td>ASSE 1020</td></tr>
<tr><td>Pressurized Flushing Devices (Flushometers) for Plumbing Fixtures</td><td>ASSE 1037</td></tr>
<tr><td>Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies</td><td>ASSE 1047</td></tr>
<tr><td>Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection ~~Principle~~ Backflow Preventers</td><td>ASSE 1013</td></tr>
</table>
</td><td></td><td></td></tr>
</table>

<table>
<tr><th colspan="7">SPS 384 PLUMBING PRODUCTS</th></tr>
<tr><th>NO.</th><th>RULE PROVISION</th><th>ISSUE/REASON FOR CHANGE</th><th>PROPOSED BY</th><th>EXISTING LANGUAGE AND PROPOSED CHANGE</th><th>POTENTIAL IMPACT/COST</th><th>COMMENTS/STATUS</th></tr>
<tr><td></td><td></td><td></td><td></td><td>
<table>
<tr><td>Reduced Pressure Principle Backflow Preventers</td><td>CAN/CSA B64.4</td></tr>
<tr><td>Spill Resistant Vacuum Breakers Assemblies</td><td>ASSE 1056</td></tr>
<tr><td>~~Vacuum Breaker~~ Wall ~~Hydrants,~~ Hydrant with Backflow Protection and Freeze Resistant ~~Automatic Draining Type~~</td><td>ASSE 1019</td></tr>
<tr><td>Residential Cation Exchange Water Softeners</td><td>NSF 44</td></tr>
</table>
</td><td></td><td></td></tr>
<tr><td>2b.</td><td>384.12</td><td>Revise</td><td>DIS</td><td>384.12 Identification. Each length of pipe and each pipe fitting, trap, fixture, material, device and product to be used in plumbing shall be marked as required by the applicable standard specified by reference in this chapter or as specified by rule in this chapter. Cross connection control devices and assemblies shall be labeled with the appropriate applicable standard.</td><td></td><td></td></tr>
<tr><td>2c.</td><td>384.20 (5) (a)</td><td>Repeal and recreate new provision

Use consistent terminology</td><td>DIS</td><td>Repeal: ~~(a) Automatic clothes washers. Residential type automatic clothes washers shall conform to ASSE 1007.~~

Recreate: (5) (a) Home laundry equipment. Household-type automatic and semi-automatic clothes washers, combination washer-dryers, and dryers including those household types that are coin-operated, shall conform to ASSE 1007.</td><td></td><td></td></tr>
<tr><td>2d.</td><td>384.20 (5) (e)</td><td>Revise
Use consistent terminology</td><td>DIS</td><td>(e) Dishwashing machines. 1. Residential-type (household) dishwashing machines shall conform to ASSE 1006.
2. Commercial type dishwashing machines shall conform to ASSE 1004.</td><td></td><td></td></tr>
<tr><td>2e.</td><td>384.20 (5) (h) 2.</td><td>Revise</td><td>DIS</td><td>2. Food waste grinders shall be trapped separately and connected to a drain of sufficient size to serve the unit, but not less than 1 ½ inches in diameter.</td><td></td><td></td></tr>
<tr><td>3.</td><td>384.20 (5) (L) 2.</td><td></td><td>DIS, amended by PAC</td><td>384.20 (5) (L) 2. Except for combination bathtub–shower units, and a shower replacing an existing non-public bathtub that is served by one showerhead, waste outlets serving showers shall be at least 2 inches in diameter and shall have removable strainers of sufficient strength for the anticipated loads.</td><td></td><td>5/30/18 – Motion to amend and adopt as shown.</td></tr>
<tr><td>3a.</td><td>384.20 (5) (L) 4. a</td><td>Revise, Create a.</td><td>DIS</td><td>~~All~~ Except as specified in subd. a., 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.</td><td></td><td></td></tr>
</table>

SPS 384 PLUMBING PRODUCTS						
NO.	**RULE PROVISION**	**ISSUE/REASON FOR CHANGE**	**PROPOSED BY**	**EXISTING LANGUAGE AND PROPOSED CHANGE**	**POTENTIAL IMPACT/COST**	**COMMENTS/STATUS**
				a. Shower stalls may not be less than 25 inches in minimum width measured from the finished interior to the center of the threshold provided the stall is not less than 1,300 square inches.		
3b.	384.20 (5) (n) 6.	Create 6.	DIS	(n) 6. Trough urinals are prohibited.		
3c.	384.20 (5) (n) 7.	Create 7.	DIS	(n) 7. Urinals requiring water shall have an individual equipped flushing device.		
4.	384.20 (5) (o)		DIS	384.20 (5)(o) 1.c. Water closet materials not listed must meet the provisions of s. SPS 384.20 (3) (b) 7.		5/30/18 – Motion to table.
4a.	384.20 (5) (o) 1. c.	Create c.	DIS	(o) 1. c. Water closet materials not listed shall meet the provisions of subd. (3) 7. and sub. (4).		
4b.	384.20 (5) (o) 6.	Revise	DIS	6. Each water closet shall be individually equipped with a flushing device. Pressurized flushing devices shall conform to ASSE 1037. 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. The critical level mark on the ~~ballcock and~~ fill valve shall be located at least one inch above the full opening of the overflow pipe.		
4c.	384.20 (5) (p)	Create Where is this being created?	DIS	Temperature and pressure relief valve discharge pipe shall comply with ASTM A112.4 or materials listed in Table 384.30-8.	Less restrictive	
5.	384.25 (title)	Expands this section to apply to all types of water	DIS	SPS 384.25 (title) ~~POWTS~~ Water holding components or treatment components.		5/30/18 – Motion to adopt.
6.	384.25 (1)	Same as #5 above.	DIS	384.25 (1) GENERAL. All ~~POWTS~~ water holding components or treatment components shall conform to the requirements of this section.		5/30/18 – Motion to adopt.
6a.	384.25 (2) (e)	Create e. Title, 1., 2., and 3. (DPD to renumber in accordance with drafting rules)	DIS	e. *Potable water storage tanks.* 1. Materials and designs for finished water storage tanks or structures shall be stable and durable as well as protecting the quality of stored water. 2.Tanks shall be constructed in accordance with AWWA standards D100, D102, D103, D104, D110, D115, D120, and D130. 3.These standards apply to concrete or fiberglass tanks, standpipes, reservoirs, and elevated tanks. Poly tanks shall be listed as per NSF 61.		

<table>
<tr><th colspan="7">SPS 384 PLUMBING PRODUCTS</th></tr>
<tr><th>NO.</th><th>RULE PROVISION</th><th>ISSUE/REASON FOR CHANGE</th><th>PROPOSED BY</th><th>EXISTING LANGUAGE AND PROPOSED CHANGE</th><th>POTENTIAL IMPACT/COST</th><th>COMMENTS/STATUS</th></tr>
<tr><td>6b.</td><td>384.25 (10)</td><td>Revise</td><td>DIS</td><td>ALARM SYSTEM. All pump and alarm controls ~~for POWTS~~ shall be specifically designed by the manufacturer for such use.</td><td>None</td><td></td></tr>
<tr><td>6c.</td><td>384.25 (11) (c)</td><td>Revise</td><td>DIS</td><td>Other treatment, holding, ~~and~~ combination treatment–holding tanks, reservoirs, and cisterns. Except as required in par. (a) or (b), each treatment tank and holding tank shall be labeled with a permanent label located near an inlet or outlet opening. The label shall be embossed, impressed, or securely attached to the tank. The label shall include all of the following information:</td><td>None</td><td></td></tr>
<tr><td>7.</td><td>Tables
384.30-1
384.30-2</td><td>Allows option to eliminate need for petition.</td><td>DIS</td><td>Add to tables 384.30-1 & 384.30-2:<table><tr><th>Material</th><th>Standard</th></tr><tr><td>Stainless Steel</td><td>ANSI B36.19M; ASTM A269; 312/A312M;
ASTM A450; A778; AWWA C220</td></tr></table></td><td></td><td>5/30/18 – Motion to adopt.</td></tr>
<tr><td>7a.</td><td>Table 384.30-4</td><td>Add standard to table</td><td>DIS</td><td>Table 384.30-4
PERFORATED EFFLUENT DISTRIBUTION PIPING FOR NONPRESSURIZED SOIL ABSORPTION SYSTEMS<table><tr><th>Material</th><th>Standard</th></tr><tr><td>Polyethylene (PE)[a]</td><td>ASTM F405; ASTM F810</td></tr><tr><td>Polyvinyl chloride (PVC)[a]</td><td>ASTM D2729; ASTM D3034</td></tr></table></td><td></td><td></td></tr>
<tr><td>7b.</td><td>Table 384.30-5 Title</td><td>Revise Title of Table</td><td>DIS</td><td>Table 384.30-5
PRESSURIZED SEWER, DRAIN PIPE, ~~AND~~ TUBING, AND SERVICE SUCTION LINES</td><td></td><td></td></tr>
<tr><td>7c.</td><td>384.30 (3) (a)</td><td>Revise</td><td>DIS</td><td>(3) (a) Above ground drain and vent pipe. Drain pipe and vent pipe installed above ground and inside a building shall conform to one of the standards listed in SPS Table 384.30–1, ~~except black steel pipe conforming to ASTM A53 may be used for storm water conductors. Black steel conductors may not be embedded in concrete or masonry.~~</td><td></td><td></td></tr>
<tr><td>7d.</td><td>384.30 (3) (e) 3.</td><td>Revise</td><td>DIS</td><td>Roof drains shall be sized in accordance with s. SPS 382.36 and the drain outlet ~~shall~~ may not be less than ~~21/2~~ 2 inches in diameter.</td><td></td><td></td></tr>
<tr><td>7e.</td><td>384.30 (3) (d)</td><td>Repeal</td><td>DIS</td><td>~~Subsoil drain pipe. Subsoil drains shall be open jointed, horizontally split, or perforated pipe conforming to one of the standards listed in Table 384.30–7.~~</td><td></td><td></td></tr>
<tr><td>7f.</td><td>Table 384.30-8</td><td>Repeal Table. Polybutylene no longer approved for</td><td>DIS</td><td>~~Table 384.30-9
MINIMUM BENDING RADIUS OF POLYBUTYLENE WATER DISTRIBUTION PIPE AND TUBING~~</td><td></td><td></td></tr>
</table>

SPS 384 PLUMBING PRODUCTS						
NO.	**RULE PROVISION**	**ISSUE/REASON FOR CHANGE**	**PROPOSED BY**	**EXISTING LANGUAGE AND PROPOSED CHANGE**	**POTENTIAL IMPACT/COST**	**COMMENTS/STATUS**
		water distribution.				
7g.	384.30 (5) (c) 4.	Update code to reflect terminology in the adopted standard.	DIS	~~Pipe applied atmospheric~~ Atmospheric type vacuum breakers shall conform to ASSE 1001~~,~~ and CAN/CSA B64.1.1.		
7h.	384.30 (5) (c) 7.	Revise	DIS	(c) 7. Backflow preventers with an intermediate atmospheric vent shall conform to ASSE 1012 and dual check type atmospheric port backflow preventers shall conform to CAN/CSA 64.3.		
7i.	384.30 (5) (c) 9. (Note)	Repeal Note to recognize the double check as an acceptable cross connection control assembly.	DIS	(c) 9. Double check backflow prevention assemblies shall conform to ASSE 1015 or CAN/CSA B64.5. ~~**Note:** Double check fire protection backflow preventer assemblies are not permitted for cross connection control.~~		
7j.	384.30 (5) (c) 12.	Revise	DIS	12. Vacuum breaker wall hydrants, freeze resistant automatic draining type shall conform to ASSE 1019, types A, ~~or~~ B, or C.		
7k.	384.30 (5) (c) 21.	New language will require all "yard hydrants" to comply with ASSE 1057	DIS	(c) 21. Yard hydrants shall conform to ASSE 1057.		
8.	384.30 (6) (b)		DIS	384.30 (6) (b) *Traps and fixture drain connection fittings.* 1. Copper or tubular brass traps and fixture drain connection fittings shall be at least of 20 ~~gage~~ gauge material. 2. Plastic tubular traps, continuous wastes, and trap adapters shall comply with s. SPS 384.40 (1) (a).		5/30/18 – Motion to adopt.
				Considerations for further discussion: Air Admittance Valves (See #18)		

SPS 384 PLUMBING PRODUCTS						
NO.	**RULE PROVISION**	**ISSUE/REASON FOR CHANGE**	**PROPOSED BY**	**EXISTING LANGUAGE AND PROPOSED CHANGE**	**POTENTIAL IMPACT/COST**	**COMMENTS/STATUS**
				Add "fixtures shall drain dry"? Determine where this provision should be placed in SPS 384. (See #19) Labeling anchors, etc. DNR Can PVC be used for water distribution? Is cold water only.		

SPS 385 SOIL AND SITE EVALUATIONS						
NO.	**RULE PROVISION**	**ISSUE/REASON FOR CHANGE**	**PROPOSED BY**	**EXISTING LANGUAGE AND PROPOSED CHANGE**	**POTENTIAL IMPACT/COST**	**COMMENTS/STATUS**

SPS 386 BOAT AND ON-SHORE SEWAGE FACILITIES						
NO.	**RULE PROVISION**	**ISSUE/REASON FOR CHANGE**	**PROPOSED BY**	**EXISTING LANGUAGE AND PROPOSED CHANGE**	**POTENTIAL IMPACT/COST**	**COMMENTS/STATUS**

SPS 387 PRIVATE ONSITE WASTEWATER TREATMENT SYSTEM REPLACEMENT OR REHABILITATION FINANCIAL ASSISTANCE PROGRAM (Wisconsin Fund)						
NO.	**RULE PROVISION**	**ISSUE/REASON FOR CHANGE**	**PROPOSED BY**	**EXISTING LANGUAGE AND PROPOSED CHANGE**	**POTENTIAL IMPACT/COST**	**COMMENTS/STATUS**

Note: SPS 387 is repealed effective June 30, 2021, pursuant to 2017 Wisconsin Act 59 (Budget Bill).

COMMITTEE MEMBER ITEMS FOR CONSIDERATION						
NO.	**RULE PROVISION**	**ISSUE/REASON FOR CHANGE**	**PROPOSED BY**	**EXISTING LANGUAGE AND PROPOSED CHANGE**	**POTENTIAL IMPACT/COST**	**COMMENTS/STATUS**
1.	SPS 325	Incorporate/ consolidate plumbing related items in SPS 325 to Plumbing Code	Gardner	**Extent of problem:** Plumbers do not typically look outside the plumbing code for plumbing related issues. This section is best served by being in the plumbing code. **What will happen if change not made:** Potential code violations by plumbers unaware that this code exists.	Should be a cost savings as this ch. will be in the plumbing code w/other plumbing related items.	*9/19/17 - Motion to repeal SPS 325.01 (2) to (4).* *[Department makes final determination whether to repeal these sections.]*
2.	SPS 382.22 (8)	Require the instruments used for testing cross connection control assemblies (ccca) be tested and calibrated annually	Sladky	**Description of problem:** Cross connection control assemblies are being tested with equipment that is out of tolerance and inaccurate. This can cause false passing results as well as false fails. The suggestion is to make the testing equipment a registered object and track it in the same manner as a CCCA. In addition, add a line in the CCCA test report stating what instrument was used to perform the test. If the testing device is not compliant, the test would entry would be rejected. **Extent of problem:** According to one calibration contractor 70% of the instruments he services are out of the acceptable range to ensure safe results. Many of the people testing the devices perform a considerable number each year. If their testing device is off there is a real danger. Additionally, if an instrument is out of calibration they may be failing devices that should pass causing unwarranted expense to the owner. **What will happen if change not made:** Continued risk to the potable water supply as well as added cost to some BFP owners due to "false fails". **Committee Discussion:** Providers in the field are finding high failure/pass rates resulting in incorrect tests. Nothing in code. ASSE recommends annual calibration. Recommend that test kit is a regulated object. 70% of kits are not accurate. Q: How many test kits in the state? Q. How to enforce/track? Could adopt a ASSE 5000 series. Ryan currently reviewing the standards. Cross connection control assemblies shall be tested and calibrated annually. The department may require documentation of a test kit calibration analysis. The analysis shall be performed in accordance with acceptable nationally recognized practices.	Average cost to calibrate a test kit is $95.00 plus shipping cost of $30.00 while it is difficult to estimate, there may be expense caused by false fails as well as cost savings by false pass results.	*10/10/17 - Motion to table.*

NON-COMMITTEE ITEMS FOR CONSIDERATION						
NO.	**RULE PROVISION**	**ISSUE/REASON FOR CHANGE**	**PROPOSED BY**	**EXISTING LANGUAGE AND PROPOSED CHANGE**	**POTENTIAL IMPACT/COST**	**COMMENTS/STATUS**
1.	SPS 382.40(7)(e)	Limits velocity to 8-ft per second in distribution piping	Wisconsin Fire Sprinkler Coalition	The intent of limiting the maximum velocity in distribution pipe is to reduce the noise of moving water and excessive wear & tear on pipe from daily use. Currently, designers installing a multi-purpose piping sprinkler/plumbing system need to up size distribution piping in order to stay below the velocity requirements when calculating the fire sprinkler demands which adds cost to the installation. I understand the need to address the excessive wear & tear and noise from water used on a daily basis; however, we hope the fire sprinklers never activate and if they do, it would be a once in a lifetime event. **Current:** (e) Maximum velocity. A water distribution system shall be designed so that the flow velocity does not exceed 8 feet per second except as provided in SPS 382.40 (3) (e). (*) **Exception proposed by submitter:** Except that the design flow velocity of the fire sprinkler system in a multi-purpose piping system shall not be limited. *Text of Reference: 382.40 (3) **(e)** *Multipurpose piping system.* **1.** Except as provided in subd. 2., a multipurpose piping system shall be designed and installed in accordance with this section and NFPA 13D. **Note:** Pursuant to this subdivision and sub. (2), materials for multipurpose piping systems need to be acceptable under the NFPA 13D standard and s. SPS 384.30, Table 384.30–9. **Note:** See s. SPS 321.095 of the Dwelling Code and s. SPS 362.0903 (10) of the Commercial Building Code as to fire protection provisions for multipurpose piping systems. **2.** Fire department connections are prohibited in a multipurpose piping system.	Less restrictive, provides additional options	Must still meet system demand/volume. City of Madison seeing more stand-alone systems. *8/9/17 - Motion to amend 382.40 (7) (e) as shown.*

NON-COMMITTEE ITEMS FOR CONSIDERATION						
NO.	**RULE PROVISION**	**ISSUE/REASON FOR CHANGE**	**PROPOSED BY**	**EXISTING LANGUAGE AND PROPOSED CHANGE**	**POTENTIAL IMPACT/COST**	**COMMENTS/STATUS**
1a.	SPS 382.40(7)(e)	Consider allowing use of pex pipe	Fire Industry to DIS	10/10/17: Discussion: Multipurpose piping: Tom discussed with a fire chief to allow use of pex pipe. Pex pipe being burned as it heats and putting out fire. Cons: Material not readily available and expense of UL piping. (If permitted, would create note under (e))		10/10/17 - Tabled. Discussion to be continued.
2.	SPS 382.30 (13) 2.	Provision lacks performance requirements.	Tom Burke, Victoria+Albert Baths, United Kingdom Letter submitted to DSPS	Request is to change the standards to make a fair performance requirement for all products that feature an overflow. This provision references the requirement for an overflow on bathtubs without any reference to performance requirements. Concern that the existence of an overflow is pointless without minimal requirements set from performance standards. ASME Standard (A112.18.2/CSA B125.2) does not detail performance requirements for overflows. CSA B45.5/IAPMO Z124, Standard for Plastic plumbing fixtures, only refers to performance requirements for overflows in sinks and lavatories. Homeowners feel the overflows are capable of taking water away from the tub filler at the same rate the tub is filling at. Discussion: Was not intended for "overfilling" rather "overflow".		*10/10/17 - Motion to reject recommendation as requester may apply for an alternate approval.*
3.	SPS 384.11 A-384.11	Add ICC-ES as another viable third-party listing agency	Maribel Campos ICC Evaluation Services (ICC-ES) Submitted to DSPS	**SPS 381.20 (2) Alternate standards.** (c) Determination of approval shall be based on an analysis of the alternate standard and the standard referenced in this code, prepared by a qualified independent third party or the organization that published the standard contained in this code. **SPS 384.11 Device listing.** Cross connection control devices and water treatment devices complying with the referenced standard in Table 384.11 shall be listed by a nationally recognized listing agency acceptable to the department. 3/20/18 Discussion: • ICC is accredited by ANSI and issue certifications for plumbing mechanical, and gas products. (Certificate included	None	*3/20/18 - Motion to table request to add ICC-ES as a third-party listing agency. Department would need to evaluate each approved product to ensure they align with current WI standards, at which point the testing agency could be added to specific tables within the code.* DIS recommends providing ICC with details of process and application to

NON-COMMITTEE ITEMS FOR CONSIDERATION						
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
				in agenda packet). ICC-ES has been evaluating for about a decade. • Testing included in scope of certification. • Have gone through 3 variances approvals within a year. Most states don't have lists of standards like Wisconsin because they adopt model codes. Request is to be added to list of approved Listing agencies in A384.11 and Table in ch. 381. • Tom – Do they list specific products or numbers? Wisconsin goes by DNR standards. • ICC doesn't have approval authority. They evaluate and list if meets criteria. DIS would still need to review products to approve. • Users of code would still need to refer to table to find standard number. Would require additional user steps. • DIS would most likely still need to look at every product. • ICC would need to come back with additional information for plumbing products with references to our specific tables and inclusive of specific criteria. Will require ICC number and ASTM number. • DPD to look at statutory authority for 384.11 re: what is "nationally recognized by the department". Review for processes for what is determined to be "acceptable" by the department – i.e. SPS 381.20. (Update: Research found that there are no statutory requirements regarding this issue.)		apply to be listed as an approved listing agency. The Dept. will communicate directly with ICC to address this issue since the request from ICC-ES does not require a code change or committee action/approval.

ADDITIONAL CONSIDERATIONS FOR DISCUSSION						
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	ISSUE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
			DIS	Incorporate water tanks (elevated, below ground) – who is regulating? Incorporate DNR language.		
			DIS	CBRF and hospice, dialysis		
			R Dahmen, Bldg. Div.	Ensure there's a cross reference in Ch. 382 or appendix to 2015 IECC, plumbing shall be insulated. Also, point back to building code for accessibility of toilets.		