



PLUMBING CODE ADVISORY COMMITTEE MEETING
Room N208, 4822 Madison Yards Way, Madison
Contact: Mindy Allen (608) 266-2112
December 18, 2018

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

AGENDA

9:00 A.M.

OPEN SESSION – CALL TO ORDER – ROLL CALL

A. Adoption of Agenda (1-2)

B. Approval of Minutes for November 6, 2018 (3-5)

C. Administrative Matters

1. Staff Updates
2. Department Updates

D. Legislative and Administrative Rule Matters - Discussion and Consideration (6-92)

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

ADJOURNMENT

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

Times listed for meeting items are approximate and depend on the length of discussion and voting. All meetings are held at 4822 Madison Yards Way, Madison, Wisconsin, unless otherwise noted. In order to confirm a meeting or to request a complete copy of the committee's agenda, please call the listed contact person. The board may also consider materials or items filed after the transmission of this notice. Times listed for the commencement of

disciplinary hearings may be changed by the examiner for the convenience of the parties. Interpreters for the hearing impaired provided upon request by contacting the Affirmative Action Officer, 608-266-2112.

**PLUMBING CODE ADVISORY COMMITTEE
MEETING MINUTES
NOVEMBER 6, 2018**

PRESENT: Scott Chiples, Roger Musolff, Marc Rhiner, Robert Schmidt, Joseph Zoulek

EXCUSED: Jason Sladky and Fred Gardner

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 9:05 a.m. A majority of five (5) members was present.

ADOPTION OF AGENDA

MOTION: Robert Schmidt moved, seconded by Joseph Zoulek, to adopt the agenda as published. Motion carried unanimously.

APPROVAL OF MINUTES FOR OCTOBER 17, 2018

MOTION: Joseph Zoulek moved, seconded by Scott Chiples, to approve the minutes of October 17, 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: Roger Musolff moved, seconded by Marc Rhiner, to adopt item 1b1 as amended. Motion carried unanimously.

MOTION: Roger Musolff moved, seconded by Robert Schmidt, to adopt item 1b2 as amended. Motion carried unanimously.

MOTION: Roger Musolff moved, seconded by Marc Rhiner, to adopt item 5a1.1 as shown. Motion carried unanimously.

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

MOTION: Joseph Zoulek moved, seconded by Scott Chiples, to adopt 27a7 as amended. Motion carried unanimously.

MOTION: Joseph Zoulek moved, seconded by Robert Schmidt, to adopt 27a8 revision 2 as amended. Motion carried unanimously.

MOTION: Roger Musolff moved, seconded by Robert Schmidt, to adopt 38d1 as amended. Motion carried unanimously.

MOTION: Robert Schmidt moved, seconded by Marc Rhiner, to adopt the recommendation to repeal item 38d2. Motion carried unanimously.

- MOTION:** Roger Musolff moved, seconded by Joseph Zoulek, to adopt item 38f2a as written. Motion carried unanimously.
- MOTION:** Joseph Zoulek moved, seconded by Robert Schmidt, to adopt item 38f2b as written. Motion carried unanimously.
- MOTION:** Roger Musolff moved, seconded by Joseph Zoulek, to adopt item 38f2c as written. Motion carried unanimously.
- MOTION:** Joseph Zoulek moved, seconded by Robert Schmidt, to adopt item 38f2d as written. Motion carried unanimously.
- MOTION:** Roger Musolff moved, seconded by Scott Chiples, to adopt item 38f2e as written. Motion carried unanimously.
- MOTION:** Roger Musolff moved, seconded by Joseph Zoulek, to adopt item 38f2f as written. Motion carried unanimously.
- MOTION:** Roger Musolff moved, seconded by Robert Schmidt, to adopt item 38f2g as written. Motion carried unanimously.
- MOTION:** Roger Musolff moved, seconded by Robert Schmidt, to adopt item 38f2h as written. Motion carried unanimously.
- MOTION:** Joseph Zoulek moved, seconded by Marc Rhiner, to adopt item 38f2i as amended. Motion carried unanimously.
- MOTION:** Robert Schmidt moved, seconded by Scott Chiples, to withdrawal the changes in items 38e1, 38f, and 38f1. Motion carried unanimously.
- MOTION:** Roger Musolff moved, seconded by Robert Schmidt, to adopt item 38f4 as amended. Motion carried unanimously.
- MOTION:** Scott Chiples moved, seconded by Roger Musolff, to adopt item 38f5 as amended. Motion carried unanimously.
- MOTION:** Roger Musolff moved, seconded by Robert Schmidt, to adopt item 38f6 as amended. Motion carried unanimously.
- MOTION:** Scott Chiples moved, seconded by Robert Schmidt, to withdrawal item 38h. Motion carried unanimously.
- MOTION:** Roger Musolff moved, seconded by Scott Chiples, to adopt item 38i as amended. Motion carried unanimously.
- MOTION:** Robert Schmidt moved, seconded by Marc Rhiner, to adopt item 38j as amended. Motion carried unanimously.
- MOTION:** Roger Musolff moved, seconded by Robert Schmidt, to adopt item 45b as amended. Motion carried unanimously.

ADJOURNMENT

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

The meeting adjourned at 2:48 p.m.

DRAFT

**State of Wisconsin
Department of Safety & Professional Services**

AGENDA REQUEST FORM

1) Name and Title of Person Submitting the Request: Mindy Allen, Administrative Rule Coordinator		2) Date When Request Submitted: December 6, 2018 <small>Items will be considered late if submitted after 12:00 p.m. on the deadline date which is 8 business days before the meeting</small>	
3) Name of Board, Committee, Council, Sections: Plumbing Code Advisory Committee			
4) Meeting Date: December 18, 2018	5) Attachments: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6) How should the item be titled on the agenda page? 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: <input checked="" type="checkbox"/> Open Session <input type="checkbox"/> Closed Session	8) Is an appearance before the Board being scheduled? <input type="checkbox"/> Yes (<u>Fill out Board Appearance Request</u>) <input checked="" type="checkbox"/> No	9) Name of Case Advisor(s), if required:	
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) Signature of person making this request Melinda R. Allen Supervisor (if required)		Authorization Date 12/6/2018 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 Code Change Proposal

Department of Safety and Professional Services

Division of Policy Development

Code section number _____

Topic _____

A. Proposed change

B. Justification: (Use page 2 or attach a separate page.)

1. Describe the problem this proposed change would address. Include information to substantiate that a problem exists.
2. What is the extent of the problem?
How often does it occur and who does it affect?
3. What will happen if this change is not made?
4. What costs, in terms of time and money, are associated with implementing this change?

Name _____

Address _____

Send proposals to Mindy Allen, Administrative Rule Coordinator, Division of Policy Development

E-mail: Melinda.Allen@wisconsin.gov.

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From: Rausch, Brian - DSPS <Brian.Rausch@Wisconsin.gov>
Sent: Tuesday, December 04, 2018 3:55 PM
To: Boebel, Ryan M - DSPS <Ryan.Boebel@Wisconsin.gov>
Subject: RE: Elevators and Plumbing

Ryan,

This is the slide I presented at the Building Code Refresher last winter regarding my Item #3 showing the only kind of drain I'm aware of. If the drain they use is like this one, I think they'll want to install the sill drain piping in the hoistway, as long as we allow it (which we would because it would be considered necessary for the operation of the elevator). Doing so would allow them to use the hoistway as a chase without building a chase and without coring holes through precast planks or other difficult methods of routing it. Then a drain of not much bigger than 4" would probably fit o.k. around elevator equipment. It would take some planning and coordination for sure.

2015 IBC CHANGES RELATED TO CONVEYANCES

IBC Section 3007. Fire Service Access Elevators

3007.3. Water Protection

3007.3 Water protection. An *approved* method to prevent water from infiltrating into the hoistway enclosure from the operation of the *automatic sprinkler system* outside the enclosed fire service access elevator lobby shall be provided.

A linear drain that effectively prevents water from cascading floor to floor during an emergency egress to meet IBC Code 3007.3



Stainless Steel Threshold Drain™

Complies with International Building Codes 3007.3 Water protection.
The occupant evacuation elevator hoistway and associated elevator landings shall be designed by an approved method to prevent water from infiltrating into the shaft enclosure

FEATURES AND BENEFITS

- For use in front of elevator doors and similar applications
- Complies with 2013 CA building code 403.6.1, 3007.4
- Third party certified to 100 gpm flow rate
- ADA compliant
- Heel proof
- 1 3/4" deep does not disturb post-tension slabs
- 304 Stainless Steel
- Removable grating

Fig. No. 9679

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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 from DIS.

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	<p>Statutes: 145.07(6) Applicants for examination for licensure as a journeyman plumber (restricted) <i>shall have completed one continuous year of work experience consisting of not less than 1,000 hours per year</i> and give evidence of completion of shop training and related instruction as the department by rule requires.</p> <p>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.</p>		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	<p>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,</p>	n/a	5/4/2017 – 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
				<p>circumstance, or event creates a situation that requires immediate correction or cessation of operation to prevent injury <u>or illness</u> based on: (1) The number of potential injuries <u>or illnesses</u>; and (2) The nature, severity, and duration of the anticipated injury <u>or illness</u>.</p>		
1a.	381.01 (195m)	Creates a definition as included in ch. 305.003 (60)	DIS	<p>SPS 381.01 (195m) is created to read: <u>(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.</u></p> <p>Discussion: A 2nd portion should be added that relates to <u>adding an ingredient</u> 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.</p> <p>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".</p> <p><u>DPD Action Items completed:</u> IPC and UPC do not contain definitions of the following terms. The below definitions were taken from other sources.</p> <p>"Industrial" means associated with manufacturing, factory, commercial, business, or trade.</p> <p>[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.</p> <p>"Potable water processing" means the act or process of removing impurities to make water more potable or useful, as by purifying, clarifying, or disinfecting.</p>		<p>3/20/2018 – Motion to table until language provided for 2nd part of definition.</p> <p>5/30/2018 – DPD to search for definitions in IPC & UPC</p> <p>8/7/2018 - Motion to adopt definition.</p>

SPS 381 DEFINITIONS AND STANDARDS						
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
1a1.	381.01 (17e)	Consistency	DIS	"Backflow preventer" means any generic backflow prevention <u>method, device, or assembly.</u>	n/a	10/17/2018 - Motion to adopt.
1b.	381.01 (18)	Revise	DIS	"Backflow preventer with <u>an intermediate atmospheric vent</u> " 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 <u>backflow preventer with intermediate atmospheric vent.</u>	n/a	8/7/2018 - 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 <u>the fully enclosed portion of a building</u> 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. 10/17/2018 Discussion: Need additional consideration of porches, decks, footings, etc.	n/a	10/17/2018 - Motion to table. Ryan to bring back additional information. 11/6/2018 – Motion to adopt as amended.
1b2.	381.01 (44)	Amend to clarify for licensing parameters	DIS	"Building sewer" means that part of the drain system not within or under <u>the fully enclosed portion of a building</u> 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	10/17/2018 - Motion to table. Ryan to bring back additional information. 11/6/2018 – Motion to adopt as amended.
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 <u>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 or a spill resistant vacuum breaker.</u>	n/a	10/17/2018 - Motion to adopt as amended.
1b4.	381.01 (66)	Amend for consistency and to better	DIS	"Cross connection control device" means any mechanical device which automatically prevents backflow from a contaminated source into a potable water supply system a <u>mechanical backflow preventer used to prevent backflow into a water supply system</u>	n/a	10/17/2018 - Motion to adopt as amended.

SPS 381 DEFINITIONS AND STANDARDS

NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
		differentiate between method, device, and assembly.		<u>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 or a backflow preventer with an atmospheric vent.</u>		
1b5.	381.01 (66m)	Create new definition for consistency and to better differentiate between method, device, and assembly.	DIS	<u>“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 vacuum breaker tee, or barometric loop.</u>	n/a	<i>10/17/2018 - Motion to adopt as amended.</i>
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	<p>“Commercial dishwashing machine” means a machine or appliance that is designed and constructed for use other than for household use.</p> <p><i>Amended to include sub-definitions of commercial- and residential-type under the main “Dishwashing machine” definition (as shown below):</i></p> <p><i>SPS 381.01 (73m) “Dishwashing machine” means a commercial- or residential-type appliance as defined in pars. a and b.</i></p> <p><i>(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.</i></p> <p><i>(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.</i></p> <p>Note: <i>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.</i></p>		<p><i>8/7/2018 – Motion to adopt as amended.</i></p> <p><i>10/17/2018 - Motion to adopt the additional amendments (in green).</i></p>
1d.	381.01 (79)	Revise	DIS	<u>“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, <u>2</u> 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.</u>	n/a	<i>8/7/2018 - Motion to adopt as amended.</i>

SPS 381 DEFINITIONS AND STANDARDS						
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
				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.		
1d1.	381.01 (108s)	Amend to reflect terminology in the standard	DIS	“Freeze resistant sanitary yard hydrant <u>with backflow protection</u> ” 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 the potable water supply and ground water from contamination due to back-siphonage or back-pressure.	n/a	10/17/2018 - Motion to adopt.
1e.	381.01 (116)	Revise	DIS	<p>(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 <u>as defined in pars. (a) to (d).</u></p> <p>DPD: Renumber 380.01 (7m) to 381.01 (116) (a) [or repeal and create] to read: {7m} <u>(116) (a) “Ambulatory surgery center” has the meaning given under 42 CFR 416.2.</u></p> <p>DPD: Renumber 381.01 (60e) to 381.01 (116) (b) and amend to read: {60e} <u>(116) (b) “Community-based residential facility” or “CBRF” has the meaning specified given under s. 50.01 (1g), Stats.</u></p> <p><u>(116) (c) “Hospital” has the meaning given under s. 50.33 (2), Stats.</u></p> <p>DPD: Renumber 381.01 (163e) to 381.01 (116) (d) and amend to read: {163e} <u>(116) (d) “Nursing home” has the meaning specified given under s. 50.01 (3), Stats.</u></p> <p>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.</p>	n/a	<p>8/7/2018 - Motion to adopt as amended.</p> <p>9/6/2108 - Create sub-definitions for the facilities listed under the terms health care facility [1(e)] and health care related facility [1f].</p> <p>10/17/2018 - Motion to adopt as amended.</p>

SPS 381 DEFINITIONS AND STANDARDS

NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
1f.	381.01 (116m)	Create new definition	DIS, amended by PAC	<p><u>(116m) “Health care related facility” means a 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.</u></p> <p><u>If the facility is not within as defined in pars (a) to (o).</u></p> <p><u>(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.</u></p> <p><u>(116m) (b) “Assisted living facility” means a facility that provides a residence for individuals who need some level of care monitoring services.</u></p> <p><u>(116m) (c) “Dental clinic” or “dental office” means a building or a space within a building that provides outpatient dental services.</u></p> <p><u>(116m) (d) “End stage renal disease facility” or “ESRD facility” means a facility that provides outpatient maintenance dialysis services. The ESRD facility may be either a hospital-based or an independent facility.</u></p> <p><u>(116m) (e) “Facility for the developmentally disabled” of “FDD” has the meaning given under DHS 134.13 (13).</u></p> <p><u>(116m) (f) “Infirmary” means an institution or a space within a larger building where sick or injured individuals receive care and treatment.</u></p> <p><u>(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.</u></p> <p><u>(116m) (h) “Inpatient mental health center” or “inpatient (h) facility” has the meaning given under s. 51.01 (10), Stats.</u></p> <p><u>(116m) (i) “Institute for mental disease” or “Mental health institute” has the meaning given under s. 51.01 (12), Stats.</u></p> <p><u>(116m) (j) “Medical clinic” or “medical office” means a building or a space within a building that provides outpatient medical care.</u></p> <p><u>(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.</u></p> <p><u>(116m) (L) “Residential care apartment complex” has the meaning given under s. 50.01 (6d), Stats.</u></p>		<p><i>8/7/2018 - Motion to table.</i></p> <p><i>9/6/2018 – Motion to adopt definition with the term “county home” struck.</i></p> <p><i>9/6/2108 - Create sub-definitions for the facilities listed under the terms “health care facility” and “health care related facility”.</i></p> <p><i>10/17/2018 - Motion to table.</i></p> <p><i>11/6/2018 - Consensus to eliminate the definitions.</i></p>

SPS 381 DEFINITIONS AND STANDARDS

NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
				<p><u>(116m) (m) "Residential care center for children and youth" has the meaning given under s. 48.02 (15d), Stats.</u></p> <p><u>(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.</u></p> <p><u>(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.</u></p> <p>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.</p> <p>11/6/2018 - DPD/DIS to propose language that clarifies that requirements for the facility will be dependent upon the licensure of the umbrella facility. Provision to be located under 382.50?</p>		
1g.	381.01 (117)	Revise	DIS, Amended by PAC	<p>"Health care plumbing appliance" means a plumbing appliance, the function of which is unique to health care activities <u>to which a patient is directly and intimately exposed.</u></p> <p>Discussion: Appliances that need product approval.</p>	n/a	8/7/2018 - Motion to adopt as revised.
1g1.	381.01 (172) – renumber to 381.01 (13m)	Revise to reflect terminology in the standard	DIS	<p><u>Renumber SPS 381.01 (172) to 381.01 (13m) and amend to read:</u></p> <p><u>(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.</u></p>		10/17/2018 - Motion to adopt.
1g2.	381.01 (189)	Update definition to match the description provided in the ASSE 1020 standard.	DIS	<p><u>(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</u></p>		10/17/2018 - Motion to adopt.

SPS 381 DEFINITIONS AND STANDARDS

NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
				<p><u>assembly, and two tightly closing test cocks one immediately upstream and one immediately downstream of the check valve.</u></p>		
1h.	381.01 (204)	Revise	DIS, Amended by DPD	<p><u>“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.</u></p> <p><i>OR Repeal and recreate to read:</i> <u>“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.</u></p>		8/7/2018 - Motion to adopt as revised.
1i.	381.01 (205m)	Create	DIS, Amended by DPD, further amended by PAC	<p><u>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.</u></p> <p><i>Recommended Revision:</i> <u>“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.</u></p> <p><i>Note:</i> <u>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.</u></p>		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	<p><u>“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</u></p>		10/17/2018 - Motion to adopt.

SPS 381 DEFINITIONS AND STANDARDS						
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
				<u>includes 2 tightly closing shut-off valves and 2 test cocks or a no. 1 test cock and a bleed valve.</u>		
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 outlet 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.		10/17/2018 - Motion to adopt as amended.
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 congregated 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		8/7/2018 - Motion to adopt w/note.
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 <u>up to and including</u> the building control valve.		10/17/2018 - Motion to adopt.
1L.	381.01 (288s)	Create new definition to incorporate term used in rule. Clarifies if yard hydrant installed, it shall meet ASSE 1057.	DIS	“Yard hydrant” means a device with a water supply outlet, or faucet, that has a valve <u>control</u> and outlet above ground and a connection to the water supply system below ground.	N/A	10/17/2018 - Motion to adopt.
2.	381.20	Outdated standards	DIS	Update standards: Tables 381.20-1 to 381.20-13 <u>DPD Action Items Completed</u> <ul style="list-style-type: none"> 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. 		5/4/2017 - Committee to complete review of standards. 10/10/2017: DPD to set up link to Dropbox to share standards for committee review.

SPS 381 DEFINITIONS AND STANDARDS						
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
				<ul style="list-style-type: none"> All electronic copies of standards received thus far from SDOs have been uploaded to Dropbox and made available for committee member review. <p>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.</p>		3/20/2018: Update given to committee re: accessibility of standards.
3.	381.20-4 <i>Change to 382.41 – 1</i>	Mitigate problems for contractors & occupants.	Stakeholder	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	5/4/2017 – <i>Motion to table.</i> Currently no language in code that allows inspector to accept these devices. 6/14/2017 – <i>Motion to accept A.S.S.E. 1081 and place in the appropriate provisions in SPS 381.20 and add to Table 382.41-1 under 382.41 (3) (a).</i>

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 <i>units</i> , 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.		5/4/2017 – <i>Motion to adopt with amendments.</i> 5/4/2017 – <i>Motion to create note to reflect definition of “camping unit” in SPS 327.</i>

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
				Rule-making project for camping units created a definition for camping unit. See 381.01 (50g). [SPS rules relating to camping units & UDC.]		
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	<p>SPS 382.20(1)(a) <i>Department review</i>. 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.</p> <p>(Table 382.20-1)</p> <p>1. All plumbing, new installations, additions and alterations, regardless of the number of plumbing fixtures involved, serving hospitals, nursing homes, ambulatory surgery centers, <u>community-based residential facilities (CBRF), and inpatient hospice.</u> ^a</p> <p>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.]</p>		<p>5/4/2017 – Motion to adopt. One opposed.</p> <p>[Definition of municipality includes counties.]</p>
5a.	382.20 (1) (a) (b) and create (bm)	Permission to start	DIS	<p>Amend (a) and (b) and create (bm).</p> <p>(a) Add: except as provided in (bm)</p> <p>(b) Add: except as provided in (bm)</p> <p>Create (bm)</p>		10/10/2017 - Motion to amend (a) and (b) and create (bm).
5a1.	382.20 (1) (a)	Revise	DIS	(a) <i>Department review</i> . Plumbing plans and specifications for the types of plumbing installations, except direct <u>fixture</u> 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	8/7/2018 – Motion to adopt.
5a1.1	382.20 (1) (b)	Amend to provide options	DIS	(b) <i>Department or agent municipality review</i> . 1. Plumbing plans and specifications for the types of plumbing installations, except direct replacements, listed in <u>SPS</u> Table 382.20–2 shall <u>may</u> 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	Less restrictive - Allows flexibility	<p>10/17/2018 Motion to table.</p> <p>11/6/2018 – Motion to adopt.</p>

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
				agent municipality in accordance with sub. (2). Written approval for the plumbing plans shall be obtained prior to installation of the plumbing. Discussion: DPD/DIS to seek legal counsel: How does this relates to municipalities that have more restrictive ordinances?		
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	8/7/2018 – 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, <u>CBRFs, hospice facility, or dialysis facility</u> . ^{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. 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.	Minimal: life safety issue	3/20/2018 - Motion to table. 5/30/2018 - Discussed. Still need additional information. 8/7/2018 – Motion to adopt.
5b1.	Table 382.20-1, 5.	Revision #1 Revision #2	DIS	Reduced pressure principle backflow preventers, reduced pressure principle 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. Revised from previously adopted version:	n/a	8/7/2018 – Motion to adopt. 10/17/2018 Motion to adopt Revision #2.

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
				<p>5. Reduced pressure principle backflow preventers, reduced pressure fire protection principle double check backflow preventers prevention assemblies, pressure vacuum breaker assemblies, reduced pressure detector fire protection backflow prevention assemblies, and spill resistant vacuum breakers serving health care and related facilities.</p> <p>DIS explanation: 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.</p> <p>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.</p> <p>Note to DIS: Amend table 20-2 for healthcare related facilities.</p>		
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	8/7/2018 – Motion to adopt.
5b3.	Table 382.20-1, 8.	Create new, Life safety issue	DIS	Potable water storage systems.	Minimal	8/7/2018 – 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	8/7/2018 – Motion to adopt.
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	<p>Potable water treatment by use of injection of a solution into the water supply system.^d Excludes one- and 2-family dwellings.</p> <p>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.</p>	Minimal	8/7/2018 – Motion to adopt as revised. <i>Footnote d. added.</i>

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
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	8/7/2018 – 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	8/7/2018 – Motion to adopt as revised (footnote added).
5b8.	Table 382.20-1, 13.		DIS	Multipurpose piping systems (MPP). ^d	Minimal	8/7/2018 – 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 <u>assemblies</u> as required under s. SPS 382.20 (1) (c) is included as a part of plan review and approval.	n/a	10/17/2018 Motion to adopt.
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://dps.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. (c) Agent municipalities may set by ordinance the fees for plan review services. (d) Agents municipality appointment shall be renewed every five years. (See 2017 Wis. Act 198 relating to agent appointments.)		8/7/2018 – Motion to adopt.
5b 10.	382.20 (3)	Create new section,	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	Less restrictive	8/7/2018 – Motion to adopt as revised.

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
		<p>Permission to start</p> <p>Taken from current alternate approval process</p>		<p>installation of plumbing, <u>to a maximum height of 18 inches above proposed finished floor elevation</u>, 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.</p> <p>(a) The plumbing installations are limited to <u>any of the following</u>:</p> <ol style="list-style-type: none"> 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. <u>The interior underfloor storm/clearwater building drain.</u> <p>(b) Permission to start will not include healthcare facilities as defined in SPS 381.01(116) or storm infiltration, detention, or retention.</p> <p>(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.</p> <p>(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.</p> <p>(e) The provisions of SPS 382.21 apply.</p>		
6.	382.20 (4) (b) 2.	Water Quality Management s letters delays plan review. DNR issue and should be regulated by local municipality.	DIS	<p>Repeal 382.20(4)(b)2, 3 & 4:</p> <p>Plans proposing the installation, creation or extension of a sanitary private interceptor main sewer which is to discharge to a municipal treatment facility shall:</p> <p>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;</p> <p>5/4/17 Discussion: This is a local issue. Waiting for letter is holding up plans and permits.</p>	Eliminates the need to expend resources	5/4/2017 – Motion to adopt.
6.01	382.20 (13)	Amend title for consistency	DIS	(13) CROSS CONNECTION CONTROL <u>ASSEMBLY</u> REGISTRATION.	n/a	10/17/2018 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
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	10/17/2018 Motion to adopt.
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	10/17/2018 Motion to adopt.
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	10/17/2018 Motion to adopt.
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	10/17/2018 Motion to adopt.
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.		10/17/2018 Motion to adopt.
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 <u>principle</u> 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	8/7/2018 – Motion to adopt [revision #1]. 10/17/2018 Motion to adopt Revision #2.
6b.	382.20 (13) create (f)	Create <u>f</u> . Standard recommends annual testing	DIS	(13) <u>f</u> . The testing and calibration of test equipment shall be performed annually.	Minimal	8/7/2018 – 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, extended, or repaired shall be tested <u>and inspected</u> as specified in sub. (2) to disclose leaks and defects before the plumbing is put into operation.	n/a	8/7/2018 – 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												
7.	382.21 (1) (b)	Misconception that testing is only required when there's a local inspector	DIS Amended by PAC	(b) Local inspection. <u>Inspections.</u> 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.		5/4/2017 – Motion to adopt with amendments.												
7a1.	382.21 (1) (b) 2.	Add to existing language. Extra time may be required for these types of inspections.	DIS	'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. <u>Inspections required in a confined space may require additional fees as specified in SPS 302.04.</u>	Potential increased hourly rates in accordance with fee schedule I SPS 302.	8/7/2018 – Motion to adopt.												
7a.	382.22 (7)		DIS	(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 <u>in accordance with s. 384.40.</u> Abandoned non-removable traps shall be disconnected from an active drain system. Discussion: Consider changing "properly" to water-tight air tight.		3/20/2018 – Motion to adopt as amended and reject the underlined portion relating to abandoned traps.												
7b.	Table 382.22-1, column 1	Revise	DIS	Reduced Pressure Principle Backflow Preventers and Reduced Pressure <u>Principle</u> Fire Protection Principle Backflow Preventers ASSE 1013		8/7/2018 – Motion to adopt.												
7c.	Table 382.22-1	Revise for consistency, removed requirement of assemblies serving fire systems.	DIS	<p align="center">Table 382.22-1</p> <p align="center">Testing <u>And</u> Submitting Requirements For <u>for</u> Cross Connection Control Assemblies</p> <table border="1" data-bbox="638 1138 1583 1472"> <thead> <tr> <th data-bbox="638 1138 932 1260">ASSE Standard Name and Number</th> <th data-bbox="932 1138 1215 1260">CAN/CSA Standard Name and Number</th> <th data-bbox="1215 1138 1394 1260">ASSE Test Standard Number and Test Required</th> <th data-bbox="1394 1138 1583 1260">Test Results to be Submitted to Department</th> </tr> </thead> <tbody> <tr> <td data-bbox="638 1260 932 1357"><u>Double Check Backflow Prevention Assemblies ASSE 1015</u></td> <td data-bbox="932 1260 1215 1357"><u>Double Check Valve Backflow Preventers CAN/CSA B64.5</u></td> <td data-bbox="1215 1260 1394 1357">5015</td> <td data-bbox="1394 1260 1583 1357"><u>Yes</u></td> </tr> <tr> <td data-bbox="638 1357 932 1472">Double Check Backflow Prevention Assemblies and Double Check Fire</td> <td data-bbox="932 1357 1215 1472">Double Check Valve Backflow Preventers CAN/CSA B64.5 and Double Check Valve</td> <td data-bbox="1215 1357 1394 1472">5015</td> <td data-bbox="1394 1357 1583 1472">No</td> </tr> </tbody> </table>	ASSE Standard Name and Number	CAN/CSA Standard Name and Number	ASSE Test Standard Number and Test Required	Test Results to be Submitted to Department	<u>Double Check Backflow Prevention Assemblies ASSE 1015</u>	<u>Double Check Valve Backflow Preventers CAN/CSA B64.5</u>	5015	<u>Yes</u>	Double Check Backflow Prevention Assemblies and Double Check Fire	Double Check Valve Backflow Preventers CAN/CSA B64.5 and Double Check Valve	5015	No	n/a	10/17/2018 Motion to adopt as revised.
ASSE Standard Name and Number	CAN/CSA Standard Name and Number	ASSE Test Standard Number and Test Required	Test Results to be Submitted to Department															
<u>Double Check Backflow Prevention Assemblies ASSE 1015</u>	<u>Double Check Valve Backflow Preventers CAN/CSA B64.5</u>	5015	<u>Yes</u>															
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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.)		Protection Backflow Prevention Assemblies ASSE 1015	Backflow Preventers For for Fire Protection Systems CAN/CSA-B64.5.1				
					Double Check Detector Fire Protection Backflow Prevention Assemblies ASSE 1048	-----	5048	No	
					Pressure Vacuum Breaker Assembly ASSE 1020	Pressure Vacuum Breakers CAN/CSA-B64.1.2	5020	Yes	
					Reduced Pressure Principle Backflow Preventers ASSE 1013	Reduced Pressure Principle Backflow Preventers CAN/CSA B64.4	5013	Yes	
					Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection Principle Backflow Preventers ASSE 1013	Reduced Pressure Principle Backflow Preventers CAN/CSA B64.4 and Reduced Pressure Principle Backflow Preventers For for Fire Protection Systems CAN/CSA-B64.4.1	5013	Yes No	
					Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies ASSE 1047	-----	5047	Yes No	
					Spill Resistant Vacuum Breaker Assemblies ASSE 1056	Spill Resistant Vacuum Breakers CAN/CSA B64.1.3	5056	Yes	
				Note to DPD: Repeal and recreate table to maintain alphabetical order.					
8.	382.30 (4) (b)	Changes with introduction of SPS 327.	DIS Amended by PAC	<i>Minimum size of building sewers.</i> 1. 'Gravity flow sewers.' The minimum size of a gravity flow sanitary building sewer shall be 4 <u>3</u> inches in diameter, <u>except sewers serving camping cabins units.</u> Add: <u>Venting shall be according to SPS 382.41 based on DFU load.</u>					5/4/2017 – Motion to adopt with amendment. 6/14/2017 - Motion to craft language

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		Change to 3" min. sewer.		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. <u>See 381.01 (50g).</u>		<p><i>relating to venting for camping units in 382.31 (4).</i></p> <p><i>8/7/2018 – Motion to amend from 4 inches to 3.</i></p>																								
8a.	382.30-1 Table	Amend Table, create footnote j.	DIS	<p>Table 382.30–1 Drainage Fixture Unit Values by Fixture Type</p> <table border="1" data-bbox="632 513 1539 846"> <thead> <tr> <th>Type of Fixture</th> <th>Drainage-Fixture Unit Value (DFU)</th> <th>Trap Size Minimum Diameter (inches)</th> </tr> </thead> <tbody> <tr> <td>Bathroom Group, includes: <u>a</u> water closet, lavatory, <u>and a</u> bathtub or shower</td> <td align="center">6 <u>5</u></td> <td></td> </tr> <tr> <td>Shower Stall:</td> <td></td> <td></td> </tr> <tr> <td>Residential- Non-public</td> <td align="center">2</td> <td align="center">2 [!]</td> </tr> <tr> <td>Public, individual</td> <td align="center">2</td> <td align="center">2</td> </tr> <tr> <td>Public, group</td> <td align="center">2 per shower head</td> <td align="center">2</td> </tr> <tr> <td><u>See exception:</u></td> <td></td> <td></td> </tr> <tr> <td>Water Closet, nonpublic</td> <td align="center">4 <u>3</u></td> <td></td> </tr> </tbody> </table> <p><u>Create footnote j. Except as provided in SPS 382.32 (3) (e).</u> (Relates to #19)</p> <p>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.</p> <p>5/30/18: Committee to review table for consideration of other changes (for commercial piping). Research IPC 2018 Table 709.1.</p> <p>8/7/2018 Discussion: Handout provided by Joe - Eliminate assembly/school column and create footnotes for the listings under urinal and water closet. Joe to revise. Consider defining emergency floor drain, continuous vs. intermittent, add kitchen handwashing sink. See #8d.</p>	Type of Fixture	Drainage-Fixture Unit Value (DFU)	Trap Size Minimum Diameter (inches)	Bathroom Group, includes: <u>a</u> water closet, lavatory, <u>and a</u> bathtub or shower	6 <u>5</u>		Shower Stall:			Residential- Non-public	2	2 [!]	Public, individual	2	2	Public, group	2 per shower head	2	<u>See exception:</u>			Water Closet, nonpublic	4 <u>3</u>			<p><i>3/20/2018 – Motion to table for further information.</i></p> <p><i>5/30/2018 - Motion to replace all references from "residential" to "non-public", where appropriate.</i></p> <p><i>5/30/2018 – Motion to create footnote J. and accept changes in DFU column and amend bathroom group language as shown.</i></p> <p><i>5/30/2018 – Motion for committee members to review Table 382.30-1 for additional changes based on data.</i></p> <p><i>9/6/2018 - Motion to adopt amendments to Table 382.30-1 as discussed.</i></p>
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8b.	Table 382.30-1	Revise	DIS	Automatic Clothes Washers: Commercial <u>type</u> , individual Commercial <u>type</u> , large capacity Self-Service Laundry Residential <u>type</u>	n/a	8/7/2018 – Motion to table (pending 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 <u>equaling</u> 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) <i>Continuous flow devices.</i> 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. <u>Note: Equipment with a timed discharge cycle(s) of 2 minutes or less may be considered as an intermittent flow device.</u>	n/a	8/7/2018 – 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. <u>8/7/2018 Action Item: Create definition for emergency floor drain and intermittent. Definition included in Table 382.30-1 footnote e. [complete]</u>	Less restrictive	8/7/2018 – 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.		5/4/2017 - Tabled. Need additional information. 5/30/2018 - No committee action needed. Rob to clarify intent of this request. 8/7/2018 - Questions resolved. No committee action required.

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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. <u>Capacity shall be based on one pump only. but in no case shall the vertical distance between the switch and the inlet be less than 3” inches.</u>	n/a	8/7/2018 – Motion to adopt.
9a2.	382.30 (10) (d)	Revise, and renumber (intro) to 1.	DIS	(d) <u>Exterior sumps. Exterior sumps shall comply with s. SPS 384.25.</u> <u>1. The minimum capacity of exterior sumps shall be determined in accordance with all of the following:</u> <u>[Note to DPD – Renumber the current 1. to 1m.]</u>	n/a	8/7/2018 – 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. <u>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.</u> <u>[Note to DPD: Tweak wording as needed. Should a note be inserted here to refer to pool code vs. duplicating language?]</u> Discussion: Per SPS 390, pool room floors need to drain dry.		3/20/2018 - 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	5/4/2017 - Tabled. 8/9/2017 – Tabled pending new language. [Tom] 5/30/2018 - No committee action needed. Withdrawn per DIS.

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11.	382.30 (11) (c) 2. e.	Allows for seasonal homes	DIS, Amended by PAC	<p>Where a building sewer or private interceptor main sewer is installed to serve summer <u>seasonal</u> use public facilities, frost protection requirements shall not apply.</p> <p><i>Discussion: Consider changing "summer" to "seasonal" for consistency w/other rules. Consider creation of note to reference definition of "seasonal".</i></p> <p>Per SPS 364.0309 (2), "Seasonal" is considered as the period between May 1 through October 15.</p>		<p>5/4/2017 - Motion to table.</p> <p>6/14 /2017 - Motion to create a definition of seasonal in SPS 381 as defined under 364.0309 (2).</p> <p>8/9/2017 - Motion to create definition for "seasonal" to mean the period of April 15 through October 31 for the purpose of frost protection.</p>
11a.	382.30 (11) (e)	Revise	DIS	<p>(e) <i>Installation of building drains and building sewers.</i> 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.</p>	Less restrictive	8/7/2018 – Motion to adopt.
12.	382.30 (12)(f) <u>382.30 (11) (a)</u>	Non-easement issues	DIS PAC	<p><u>Existing:</u> No private interceptor main sewer may pass through or under a building to serve another building, unless one of the following conditions are met:</p> <p><u>Proposed:</u> 3. An easement and agreement for maintenance and repairs shall be recorded with the register of deeds no later than 90 days after installation.</p> <p>Discussion: Issues w/neighbor disputes re: who is maintaining easement. Proposal provides directive to alleviate issues.</p> <p><i>Consider additional amendments to this section.</i></p> <p><i>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.</i></p> <p>[Action Item: Tom to develop amended language. Research PSC 284 or other rule provisions for language to address issue.]</p> <p>9/7/2018 – DIS/DPD to seek legal counsel regarding consistency with PSC 284 re: individual connections. If conflict, does plumbing code trump?</p>		5/4/2017 – Motion to table pending new language.
13.	382.30 (13)(c)	Clarification	DIS Amended by PAC	<p>Exposed drain piping shall not be located over a pool, surge tank, or an open filter for a pool.</p> <p>Proposed: Add Note: Note: Piping with insulation is not exposed.</p>	Less restrictive	5/4/2017 – Motion to adopt with amended note.

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	382.30 (13) (b)			<p><u>SPS 382.30(13) (c) (Note) is created to read:</u> <u>Note: See ch. 382 Appendix for examples of exposed piping considerations.</u></p> <p><i>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)</i> <i>6/14/17 - This may fall under health department. They may allow a trough.</i></p>		
13 a1.	382.31 (10) (a)	Revise – Allows use of double wyes	DIS	(a) The circuit vent shall connect to the horizontal drain at <u>the same point or a point</u> between the 2 most upstream fixtures.	Provides flexibility	8/7/2018 – Motion to adopt.
13a.	382.31 (11) (a)		DIS Amended by PAC	(a) <i>Vertical drains.</i> A common vent may serve a maximum of 2 fixtures where both fixture drains connect to a vertical drain at the same elevation. <u>1.</u> 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. <u>2.</u> 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.		3/20/2018 – 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).		5/14/2017 – Left off here. 6/14/2017 – 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: <u>2. e. If a vent terminates under an overhang, it shall be a minimum of 5 feet below the overhang.</u>		6/14/2017 - Motion to strike 383.31(16) (d) 1. 6/14/2017 -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).		6/14/2017 - 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		6/14/2017 - No committee action required.

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18.	382.31 (18)	Codifying AAV alternate approval Doesn't have to go through plan review if in code.	DIS, Amended by PAC	<p>Create new section: <u>(18m) AIR ADMITTANCE VALVES (AAV). The use of air admittance valves in lieu of traditional venting shall comply with all of the following:</u></p> <p>(a) <u>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.</u></p> <p>(b) <u>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.</u></p> <p>(c) <u>The size and developed length for a vent using an AAV shall conform with Table 382.31-6.</u></p> <p><u>TABLE 382.31-6</u></p> <table border="1" data-bbox="753 769 1329 1011"> <thead> <tr> <th rowspan="2">Maximum DFU's</th> <th colspan="3">Maximum Developed Distance of Vent to Connection of AAV in Feet</th> </tr> <tr> <th colspan="3">Diameter in Inches</th> </tr> <tr> <td></td> <th>1-1/4^a</th> <th>1-1/2^c</th> <th>2</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>35</td> <td>NL</td> <td>NL</td> </tr> <tr> <td>3</td> <td>28</td> <td>140</td> <td>NL</td> </tr> <tr> <td>6</td> <td>NP^e</td> <td>100</td> <td>200</td> </tr> <tr> <td>20</td> <td>NP</td> <td>60</td> <td>110</td> </tr> </tbody> </table> <p>(d) <u>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.</u></p> <p>(e) <u>Installation. The installation of the AAV shall conform with all of the following:</u></p> <ol style="list-style-type: none"> 1. <u>The AAV must be installed in the vertical position (plus or minus 15 degrees from plumb).</u> 2. <u>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.</u> 3. <u>The installation location of the AAV shall conform with all of the following:</u> <ol style="list-style-type: none"> a. <u>A minimum of 4 inches above the top of the horizontal pipe being served.</u> b. <u>No more than 20 inches below the flood rim of any fixture served.</u> c. <u>At least 6 inches above insulation materials.</u> 	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		<p>6/14/2017 – Motion to adopt with amendments.</p> <p>8/9/2017 - Tabled: No ASSE number available at this time.</p> <p>[Action Item: DPD to Send standard once available. To be addressed in ch. 384.]</p> <p>5/30/18: DPD to look for ASTM or ASSE standard number for AAV - onsite testing.</p> <p>Add the standards to the standards table.</p>
Maximum DFU's	Maximum Developed Distance of Vent to Connection of AAV in Feet																																
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	1-1/4 ^a	1-1/2 ^c	2																														
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3	28	140	NL																														
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19.	382.32 (3) (e)		DIS, amended by PAC	<p><i>Size.</i> Traps shall be of diameters not less than those specified in Table 382.30-1 of s. SPS 382.30.</p> <p>a. <u>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:</u></p> <p>1. <u>a. The shower is served by one control valve and one shower head.</u></p> <p><u>b. The shower head shall have a maximum flow rate of 2.5 gallons per minute (gpm).</u></p> <p>Discussion: Consider adding “fixtures shall drain dry”? Determine where this provision should be placed in SPS 384.</p> <p>[Note to DPD: Make change in 382.32 (3) (f). ‘Except as provided in...’]</p>		<p>6/14/2017 – Motion to adopt with amendments.</p> <p>8/9/2017 – Motion to place note under Table 382.30-1 to read: ‘See SPS 382.32 (3) (e) for exceptions.’</p> <p>5/30/18 – Motion to add “non-public” after the (struck) word residential.</p> <p>8/7/2018 – Will address “non-public” when Table 382.30-1 complete.</p> <p>9/6/2018 – Motion to withdraw previous changes relating to “non-public”.</p>
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 <u>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”.</u>	Eliminates need for petition	8/7/2018 – 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.		6/14/2017 – Motion to adopt.
20a.	382.32 (4) (b) 1. <u>e.</u>	Create <u>e.</u> , Spancrete issues, separating from 19a.	DIS	1. e. <u>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”.</u>	n/a	8/7/2018 – Motion to adopt.
21.	382.32 (5) (b)	Issues with dishwashers, clothes	DIS	Existing: <i>Kitchen sinks.</i> Horizontal drain piping serving a kitchen sink trap shall not connect to vertical drain piping by means of a double sanitary tee.		6/14/2017 – Motion to adopt.

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NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
		washers and disposals		<u>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.</u>		
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.		3/20/2018 – Motion to adopt as presented, eliminate 2 nd sentence (in red).
22.	382.33	Need to expand table?	DIS, amended by PAC	<p>(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.</p> <p>Table 382.33-1 – some states allow indirect waste piping. Discussion: kitchen sink – suds.</p> <p><u>Table 382.33-1</u> Refrigerated food storage rooms and compartments Refrigerated food display cases Ice compartments <u>and ice makers</u> Vending machines Steam tables, kettles, <u>and related equipment</u> Food preparation sinks Potato peelers Egg boilers 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 <u>Other devices, fixtures, and appliances as approved by the department</u></p> <p>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?</p>		<p>8/9/2017 - Motion to add “Other devices, fixtures, and appliances as approved by the department.”</p> <p>8/9/2017 - Motion to add ice-makers and “and related equipment”.</p>

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NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
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) <i>Local waste piping.</i> 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.		9/19/2017 – 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 <u>may</u> not exceed 30 feet in length horizontally nor 15 feet in length vertically.		10/17/2018 Motion to adopt.
23.	382.33 (8) (d)	Industry standard Adds allowance	DIS	<i>Other receptors.</i> A plumbing fixture may not be used as a receptor for indirect or local waste piping, except as provided in subds. 1. to 7 <u>8.</u> <u>8. A water closet, clinical sink, or a urinal may receive the discharge from a mortuary or autopsy table.</u> 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.]		6/14/2017 - Motion to adopt 8. 8/9/2017 – Motion to request Department to draft language for SPS 382.50 relating to dialysis boxes.
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	8/7/2018 – 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		6/14/2017 - 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 <u>tailpiece of</u> a trap serving a laboratory sink that is provided with a plaster trap and is installed within 3 feet of the mold grinder.		6/14/2017 – Motion to adopt.
26.	382.33 (9) (a)	Specific discharge language	DIS	<u>Existing:</u> Addition to. <u>Proposed: Indirect waste must discharge to an approved receptor.</u>		6/14/2017 – Motion to adopt.
27.	382.33 (9) (c) 2.	Clarification – This is not limited to	DIS	‘Self-service laundries Laundries.’ Pumped-discharge automatic clothes washing equipment, <u>including residential-type clothes washers</u> in launderettes, laundromats, and self-service laundry establishments shall have the wastes discharge to a drain	Less restrictive	6/14/2017 – Motion to adopt.

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NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
		self-service laundries.		system by means of standpipes. The standpipes shall be installed in accordance with subd. 1.		
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 <u>allowable</u> number of washers which may be connected <u>discharge to a the minimum sized trap</u> shall be in accordance with Table 382.33-2.	n/a	8/7/2018 – Motion to adopt.
27 a2.	382.33 (9) (c) 2. b.	Move under "residential type" washers. Use plural form of manifold for consistency	DIS	Renumber to (9) (c) 1. d. Washer wastes shall not be discharged to gutters, troughs, local waste piping, indirect waste manifold <u>manifolds</u> , or other similar connections.	n/a	8/7/2018 – Motion to adopt.
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	8/7/2018 – Motion to adopt.
27 a4.	382.33 (9) (c) 3. c.	Revise, add subsection #	DIS	All wastes from the washers shall flow through an <u>an Commercial Laundry</u> interceptor as specified in s. SPS 382.34 <u>(7)</u> .	n/a	8/7/2018 – Motion to adopt.
27 a5.	Table 382.33-2 (title)	Revise title	DIS, amended by PAC	Washer Connections <u>Clothes Washer Discharge</u>	n/a	8/7/2018 – Motion to adopt.
27 a6.	382.33 (9) (f) 3. to 5.	Move subd. 3. to 5. under	DIS	3. b. A sump may not be located in an elevator machine room.	n/a	8/7/2018-No action needed.

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		section 382.36 (8) (a) See also 38 e1.		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.		
27 a7.	382.33 (9) (g)	Amend for clarity, confusing	DIS, amended by PAC	Food handling establishments service. For occupancies other than dwelling units, Plumbing-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 <u>intended for human consumption</u> shall be installed in accordance with this paragraph.	None	10/17/2018 Motion to table. 11/6/2018 – Motion to adopt as amended.
27 a8.	382.33 (9) (g) 1.	Where DATCP requires an additional handwashing sink after a final inspection	DIS, amended by PAC	Revision #1 1. 'Bar and soda fountain sinks Sinks.' Where a 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 may discharge to the sanitary drain system through indirect waste piping. Revision #2 'Bar, and soda fountain, or handwashing sinks.' Where a 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 may discharge to the sanitary drain system through indirect waste piping.	Less restrictive	10/17/2018 Motion to adopt. 11/6/2018 – Motion to adopt revision #2 as amended.
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.		3/20/2018 – Table for more information from Tom. 8/7/2018 – Proposal withdrawn by DIS.
28.	382.33 (9) (g) Note	Amend term from 'material'	DIS	Note: See ch. SPS 382 Appendix for further explanatory material <u>information</u> . Discussion: "Material" typically references plumbing material.		6/4/2017 - Tabled 8/9/17 - Motion to amend notes throughout code to

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						<i>replace 'material' with 'information'.</i>
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, <u>air-break</u> , or to grade. <u>The distance from the top of the air-break to the pool deck shall be a minimum of 6 inches.</u> 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	6/14/2017 - 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 <u>water treatment and holding devices</u> , appurtenances and systems, including but not limited to interceptors, catch basins, decontamination tanks and dilution and neutralizing basins.	n/a	8/7/2018 – 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 servicing <u>shall serve</u> a containment tank for servicing purposes <u>and</u> 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.		6/14/2017 - Motion to adopt.
31.	382.34 (15) (d) 1.	Hospitals need to account for all water.	DIS	Create: <u>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.</u>	Allows an additional option	6/14/2017 - Motion to adopt.
32.	382.34 (3) (e)	Specific maintenance for grease interceptors is needed.	DIS, amended by PAC	<i>Maintenance.</i> 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 <u>maintained on a cycle not to exceed 90 days or per manufacturer's instructions.</u>	More restrictive	6/14/2017 - Motion to adopt.

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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.		10/17/2018 – Motion to adopt.
33.	382.34 (4) (b)	Basket req. to be removable for cleaning of fixture. Incl. in SPS 325 .01.	DIS	<i>Garages for one- and 2-family dwellings.</i> 1. Floor drains serving garages for one- and 2-family dwellings shall be provided with a removable solid bottom sediment basket.	Less restrictive	6/14/2017 - 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.		3/20/2018 – 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. <u>Grates for garage catch basins, floor drains and trenches.</u> 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.]		6/14/2017 - Motion to adopt SPS 382.34 (c)1. to 3. 9/19/2017 – 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.	6/14/2017 - Motion to adopt.

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36.	382.34 (5) (c)	Clarification. Other non-grease producing fixtures tend to interfere with proper grease interception.	DIS	<p>Exterior <u>New exterior grease interceptors</u> interceptor installations shall receive the entire <u>greasy</u> 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.</p> <p><i>6/14/17 Discussion: Consider definition for "greasy waste"?</i></p>		<p>6/14/2017 - Motion to adopt.</p> <p>6/14/2017 - Motion to change title of 382.34 (5) to Fats, Oils, and Grease (FOG) Treatment and add a note to FOG definition [SPS 381.03 (93m)].</p>
37.	382.34 (5) (c) 1. g.	Compartments on exterior grease interceptors prevent channeling of waste.	DIS	<p><u>An exterior grease interceptor shall have at least two compartments.</u> 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 <u>23" inches</u> in the least dimension. Manholes shall terminate at or above ground surface and be of approved materials.</p>		<p>6/14/2017 - Motion to adopt.</p>
37 a1.	382.34 (5) (d) <u>8.</u>	Create new	DIS	<p>For calculating greasy waste for a wok the following formula may be used:</p> $\frac{\text{Diameter} \times \text{Diameter} \times .7854 \times \text{Depth} \times .65 \times .75}{231}$		<p>8/7/2018 – Motion to adopt.</p>
37a.	382.34 (15) (a) 2.	Amend to remove exterior	DIS, amended by PAC	<p>Exterior containment <u>Containment</u> 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.</p>		<p>3/20/2018 – Motion to adopt.</p>
37 a2.	382.34 <u>(16)</u>	<p>Create new section (16)</p> <p>Keeps performance and includes other parts of code.</p>	DIS	<p><u>(16) WATER REUSE SYSTEMS.</u></p> <p><u>(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.</u></p> <p><u>2. Except as provided in subd. 3., wastewater discharged from water closets or urinals shall not be reused for drinking water.</u></p> <p><u>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.</u></p> <p><u>(2) Water reuse treatment shall produce a water quality conforming to SPS 382.70.</u></p> <p><u>(a) Periodic and maintenance shall be performed by qualified individuals.</u></p>	<p>Less restrictive regarding record keeping</p>	<p>8/7/2018 - Left off here.</p> <p>9/6/2018 – Motion to adopt.</p>

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				<p><u>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.</u></p> <p><u>2. The department shall be provided access to the water treatment system and records upon request.</u></p> <p><u>(3) Materials.1. Water distribution material shall comply with SPS 384.30(4)(e) and SPS 384.30(5).</u></p> <p><u>2. Drain and vent piping shall comply with 384.30(2).</u></p> <p><u>3. Treatment and holding tanks shall comply with 384.25.</u></p> <p><u>4. Water treatment components shall have department approval or conform to an accepted standard.</u></p> <p><u>5. Components shall be properly labeled as to the manufacturer and model number.</u></p> <p><u>(4) Installations. (a) 1. Water reuse systems shall not supply water to a potable water supply system.</u></p> <p><u>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.</u></p> <p><u>3. A backwater valve shall be installed where the discharge from a reuse component is connected to a sewer.</u></p> <p>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.</p>		
37 a3.	<p>382.34 (17)</p> <p>(Note to DPD: to Renumber to align with drafting procedures .)</p>	<p>Create new section (17)</p> <p>Optimum service demand</p>	<p>DIS, amended by PAC</p>	<p>[Renumber from 382.40 (8) (j)]</p> <p><u>(17) WATER TREATMENT</u></p> <p><u>(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.</u></p> <p><u>2. Water softener sizing criteria shall be based on SPS 382.40 (6) and the manufacturer's specifications.</u></p> <p><u>3. A bypass shall be provided to serve a water softener.</u></p> <p><u>4. Water softeners shall meet the requirements of SPS 384.</u></p> <p><u>(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.</u></p> <p><u>2. The connection of the drain shall be as specified in SPS 382.33.</u></p> <p><u>3. Point of use systems supply connections shall conform to SPS 382.40(7)(h).</u></p> <p><u>4. A bypass is prohibited on a reverse osmosis system used for patient care.</u></p>		<p>9/6/2018 – Motion to adopt as amended.</p>

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				<p><u>(Consider additional section – if not specified, code shall supersede.</u></p> <p><u>(3) Disinfection. (a) Chlorine, Chloramine. Continuous. 1. The maximum residual disinfection level goals (MRDLGs) as per SPS 382.22, NR809.561, NR809.80:</u></p> <p><u>a. The maximum residual disinfectant concentration may not exceed 4.0 mg/L.</u></p> <p><u>b. The system shall be designed and installed to achieve the minimum inactivation rate (“CT” value).</u></p> <p><u>c. The maximum contaminant level of byproducts must not exceed 0.080 Trihalomethanes (TTHM) and 0.60 Haloacetic Acids (HAA5).</u></p> <p><u>2. Each potable water system using chlorine disinfection shall be automatically and continuously disinfected by means of disinfectant and feeding equipment.</u></p> <p><u>3. Disinfectant and filter aid feeding shall be conducted as follows:</u></p> <p><u>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.</u></p> <p><u>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.</u></p> <p><u>4. Feeders shall comply with all of the following:</u></p> <p><u>a. All disinfectant feeders shall be installed according to the manufacturer’s directions and used only with the disinfectant recommended by the manufacturer.</u></p> <p><u>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.</u></p> <p><u>c. Feeders shall be properly vented and incorporate anti-siphon safeguards to prevent disinfectant feeding in the event of the failure of recirculation equipment.</u></p> <p><u>d. Feeder pumps shall be electrically connected to the recirculation pump control circuit and have a separate disconnect switch.</u></p> <p><u>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.</u></p> <p><u>f. Feeder systems shall be located to disinfect the entire hot water system per SPS 382.50.</u></p> <p><u>5. Disinfectant shall comply with the following:</u></p> <p><u>a. The disinfectant must comply with NSF/ANSI 60-International Standard for Drinking Water Additives.</u></p> <p><u>b. The disinfectant has an effective residual that can be measured easily and accurately by an approved field test procedure.</u></p>		

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				<p>c. <u>The disinfectant is compatible for use with other chemicals normally used in the water treatment or is clearly identified as having a use limitation.</u></p> <p>d. <u>The disinfectant does not impart toxic properties to the water when used according to the manufacturer’s directions.</u></p> <p>e. <u>The disinfectant does not create an undue safety hazard when handled, stored or used according to the manufacturer’s directions.</u></p> <p>f. <u>All chemicals used in the operation, and bulk storage tanks containing the chemicals shall be conspicuously labeled with the following information:</u></p> <ul style="list-style-type: none"> i. <u>Name of the product</u> ii. <u>The manufacturer’s name and address</u> iii. <u>Active ingredients</u> iv. <u>Directions for use</u> v. <u>Hazardous ingredient warning</u> vi. <u>The U.S. environmental protection agency registration number</u> <p>(b) <u>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.</u></p> <p><u>2. The capacity of the UV system shall comply with sizing criteria listed in SPS 382.40.</u></p> <p><u>3. The water system downstream of the UV disinfection system shall be disinfected prior and immediately before activation.</u></p> <p><u>4. Multiple parallel UV treatment systems may be installed to provide disinfection of the water systems.</u></p> <ul style="list-style-type: none"> i. <u>Single component failure can be expected. If a single UV treatment system is installed, a bypass may be installed.</u> <p><u>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.</u></p> <p><u>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.</u></p> <p><u>7. A solenoid valve must be installed on this device.</u></p> <p><u>8. Pretreatment of The water supply may be required per shall meet the manufacturer’s specifications.</u></p> <p>(4) <u>Water Quality monitoring. (a) Chlorine, chloramine.</u></p>		

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				<p><u>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.</u></p> <p><u>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:</u></p> <p><u>a. Manually tested at least once a day for disinfectant residual and pH with an approved test kit, or</u></p> <p><u>b. Managed by a continuous monitoring system in compliance with a water management plan approved by the department.</u></p> <p><u>(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.</u></p> <p><u>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:</u></p> <ul style="list-style-type: none"> <u>i. Location of sample</u> <u>ii. Date and time sample taken</u> <u>iii. Sample result</u> <u>iv. Identification of person taking sample</u> <p><u>(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:</u></p> <ul style="list-style-type: none"> <u>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).</u> <u>b.</u> <ul style="list-style-type: none"> <u>i. At startup</u> <u>ii. 2 weeks after startup</u> <u>iii. Once annually thereafter</u> <u>c. Water quality tests shall be taken after disinfection and flushing per SPS 382.40(8)(i).</u> <u>d. A separate sample should be taken upstream and downstream of the device.</u> <u>e. A record shall be kept on the water quality test results.</u> <p><u>2. Water system owners are encouraged, but not required, to should routinely monitor effectiveness of the water treatment system.</u></p> <p><u>(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.</u></p>		

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				<p><u>(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.</u></p> <p><u>(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.</u></p> <p><u>2. Representatives of the department and health services shall be provided access to the water treatment system and records upon request.</u></p>		
37b.	382.34 (15) (e)	Clarification	DIS	<p>(e) <u>Pump requirements. 1. A pump or discharge line serving shall serve</u> a containment tank for servicing purposes <u>and</u> shall comply with all of the following:</p>		3/20/2018 – Motion to adopt.
37 b1.	382.34 (18)	Implode protection	DIS, Amended by PAC	<p><u>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.</u></p> <p><u>(17) (7) A vacuum relief valve shall be installed in each water treatment appliance installed more than 20 feet above any faucet or outlet served by the appliance when measured from the bottom of the tank.</u></p> <p>DPD: Renumber to (17) (6) and change (17) (6) to (7).</p>	Minimal	10/17/2018 Adopt as amended.
37c.	382.35 (3) (e) 2.	Re: Finished basements	DIS	<p>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 <u>10</u> feet of where the building drain and building sewer connect.</p> <p>[Note to DPD – Do not amend.]</p>		3/20/2018 – Motion to reject DIS recommendation and retain original 5 feet requirement.
38.	382.35 (3) (f)	With the advent of plastic pipe, the rule is outdated.	DIS	<p>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.</p> <p><i>(Rule was written when cast iron was the prevalent material used in stacks and prevented fixture connections into the cleanouts.)</i></p>		6/14/2017 - Motion to adopt.
38a.	382.35 (6) Table 382.35		DIS, amended by PAC	<p>(6) CLEANOUT SIZE. (renumber) <u>(a) Cleanouts and cleanout extensions shall be sized in accordance with Table 382.35 except as provided in (6) (b).</u></p> <p><u>(6) (b) The replacement or repair of a non-public 6" sanitary sewer may be served by an existing 4" extension within the building.</u></p> <p>[Note to DPD – Do not amend table.]</p>		3/20/2018 – Left off here. 5/30/2018 – Motion to not amend table and create an exception. (renumber

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				Diameter of Pipe Served by Cleanout (inches)	Minimum Diameter Cleanout Extension (inches)	Minimum Diameter of Cleanout Opening (inches)		
				5	5-4	4		<i>intro to (a) and amend as shown, create (b) with exception language)</i>
				6	6-4	5-4		
38 a1.	382.36 (3) Note	Repeal note due to new statute language (?)	DIS	<p>Note: Where local discharge requirements are more stringent, stormwater plumbing systems may provide detention and treatment to comply with the local stormwater management plan.</p> <p>DIS to seek legal counsel guidance relating to ACT 243 that amended ch. 281, Stats., (DNR statute), relating to stormwater management.</p>				9/6/2018 – Motion to table.
38 a2.	382.36 (3) <u>(d) 1. to 7.</u>	Create new par./subd. (d) 1. to 5. Adds manholes to include provision to remove suspended solids for longer detention tanks.	DIS, Amended by PAC	<p>(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.</p> <p>2. The distance between manhole openings serving the same compartment shall not exceed 25 50 feet.</p> <p>3. A manhole opening shall be not less than 23” in the least dimension.</p> <p>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 material as the tank and an integral part of the tank. The collar shall have a minimum height of 2”.</p> <p>5. Manhole risers for interceptor tanks shall be provided with a substantial, fitted, watertight cover of concrete, steel, cast iron or other approved material.</p> <p>6. Manhole covers shall terminate at or above grade and shall have an approved locking device.</p> <p>7. Tanks shall conform to provisions of s. SPS 384.25.</p> <p>DPD Ensure same language appears in SPS 382.34 (5) (c)1.</p>			Will result in upfront costs but will reduce long-term cost to owners for labor/maintenance/cleaning .	9/6/2018 - Motion to adopt as amended.
38 a3.	382.36 (4) (b) <u>4.</u>	Create <u>4.</u>	DIS amended by PAC	4. Exterior subsoil drain connections to the storm sewer shall be above the ground top of the storm sewer or by use of a backwater valve.			Provides options.	9/6/2018 – 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.				5/30/2018 – Motion to adopt.

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38 b1.	382.36 (6) (g) 2.	Repeal due to new statute language (?)	DIS	<p>3. 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.</p> <p>Discussion: Will discuss after further explanation of legislation relating to municipal ordinances that are more restrictive.</p>		<p>9/6/2018 – Left off here.</p> <p>10/17/2018 – Motion to table.</p>
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.		5/30/2018 – Motion to adopt as shown.
38d.	382.36 (7) (d) 1.		DIS	<p>1. The connection of a stormwater leader discharging to a storm building sewer shall be made at or above the finished grade.</p> <p>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).</p>		5/30/2018 - Motion to create 2. and amend as shown.
38 d1.	382.36 (8) (a) 4. a.	Revise See also item # 38d2. "or c." relates to repealed provision.	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.		<p>10/17/2018 – Motion to adopt.</p> <p>11/6/2018 – Motion to adopt as amended.</p>
38d2.	382.36(8) (a)4.c.	Repeal	DIS	4. 'Size'. 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.		11/6/2018 – Motion to adopt.
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, <u>exception single family dwelling except for one- and 2-family dwellings.</u>	Minimal	5/30/2018 – Motion to adopt as revised.
38 e1.	382.36 (8) (a) 4. (new)	Relocated from 382.33 (9) (f) 3. to 5. See #27a6.	DIS	<p><u>Consider creating new section (8m) relating to elevator sumps</u> <u>Create new section (DPD to number subsection as appropriate)</u> <u>(8m) (a) ELEVATOR SUMPS</u></p> <p>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. 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.</p> <p>Discussion: Relocate 382.33 (9) (f) to new section (8m) or (14) relating to elevators and create 1. 2. Drains: Need to also address indirect waste piping and sizing of drain piping. Locate all elevator related provisions under its own section.</p>		<p>10/17/2018 – Motion to table.</p> <p>11/6/2018 - Motion to withdraw proposal. Incorporated into other items.</p>

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38f.	382.36 (8) (a) 4. c. See #38f1.	Repeal. High pump rates are required in elevator code.	DIS, with rec. by PAC	<p>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.</p> <p>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.) Discussion: Conveyance Council is proposing to repeal these provisions from the elevator code. 10/17/18: Additional collaboration needed between plumbing code and elevator code.</p>		<p>5/30/2018 – Motion to table the proposed change. 5/30/2018 - 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.</p> <p>11/6/2018 - Motion to withdraw proposal.</p>
38 f1.	382.36 (8) (a) 4. c. (new) See #38f.	New language is required in building code.	DIS	<p><u>Add under new created section (8m) or (14)?</u> 4. A sump or drain located in an elevator pit shall be sized to accommodate at least one of any of the following:</p> <p><u>a. 30 gpm in a hoistway with one elevator.</u> <u>b. 50 gpm in a hoistway with two or three elevators.</u> <u>c. 80 gpm in a hoistway with four elevators.</u></p> <p>Discussion: Intro language is not the same as the building code. Consider revising to match. What are requirements for more than 4 elevators?</p>		<p>10/17/2018 – Motion to table.</p> <p>11/6/2018 - Motion to withdraw proposal.</p>
38 f2.	382.36 (8m) (a) 5. (new) Create 382.30 (11) (b) 3. d.	New language is required in building code.	DIS	<p>382.30 (11) (b)</p> <p><u>3. A floor drain shall be provided at the entrance to each elevator door opening.</u></p> <p><u>a. The drain shall be capable to receive and discharge 80 gpm.</u> <u>b. The drain may discharge to the sanitary or clearwater drain system.</u></p> <p>DPD to renumber per drafting procedures.</p> <p>11/6/2018 – Discussion: Belief that this is now a new building code requirement in 2015 IBC. DIS to discuss with elevator and building code program staff regarding 80 gpm and requirement for drain on each floor.</p>		<p>10/17/2018 – Motion to table.</p> <p>12/18/2018: No action required. Withdraw proposal. Proposal is now incorporated in 38f2j.</p>
38f2a	382.36 (14) ?	Create title, and group all	DIS	<u>Elevator Hoistway Drains.</u>		11/6/2018 – Motion to adopt.

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		items relating to elevator hoistway drainage. See item 38f2j. for full section.		Discussion: Pit vs. Hoistway? Both appear in the Building Code. 362.3002 is titled "Hoistway Enclosures.", however the terms pit, shaft, and hoistway all appear in 362.3002(4) Plumbing and Mechanical Systems. No definitions of "hoistway", "pit", or "shaft" in the building code.		
38f2b	382.33 (9) (f) renumber to 382.36 (14) (a) ?	See item 38f2j. for full section.	DIS	Elevator drains (a) Discharge.		11/6/2018 – Motion to adopt.
38f2c.	382.33(9) (f)1. renumber to 382.36 (14) (a) 1. ?	See item 38f2j. for full section.	DIS	All drains Drains serving elevator pits hoistways shall discharge to the storm drain system as specified in s-SPS 382.36(4) Table 382.38-1.		11/6/2018 – Motion to adopt.
38f2d	382.33(9) (f)2. renumber to 382.36 (14) (a) 2. ?	See item 38f2j. for full section.	DIS	Drains serving elevator pits hoistways shall may not connect directly with the storm drain system by means of gravity flow piping.		11/6/2018 – Motion to adopt.
38f2e	382.33(9) (f)4. renumber to 382.36 (14) (a) 3. ?	See item 38f2j. for full section.	DIS	A drain serving an elevator pit hoistway that discharges to a sump shall have a submerged inlet constructed to maintain a minimum 6" 6-inch trap seal.		11/6/2018 – Motion to adopt.
38f2f.	Create 382.36 (14) (b) Title	See item 38f2j. for full section.	DIS	<u>Sumps.</u>		11/6/2018 – Motion to adopt.

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38f2g	382.33(9) (f) 3. renumber to 382.36 (14) (b) 1.	See item 38f2j. for full section.	DIS	A sump may not be located <u>installed</u> in an elevator machine room.		11/6/2018 – Motion to adopt.
38f2h	382.33(9) (f)5. renumber to 382.36 (14) (b) 2.	See item 38f2j. for full section.	DIS	A sump located in an elevator pit <u>hoistway</u> may only receive storm or clear water waste from the elevator pit <u>hoistway</u> or the elevator machine room, or both. Note: See ch. SPS 382 Appendix for further explanatory material.		11/6/2018 – Motion to adopt.
38f2i.	Create 382.36 (14) (c)	See item 38f2j. for full section.	DIS, Amended by PAC	<u>Size. Where required, The the aggregate capacity for drainage from the pit <u>hoistway</u> shall be at least one of the following:</u> 1. <u>30 gpm in a hoistway with one elevator.</u> 2. <u>50 gpm in a hoistway with two or three elevators.</u> 3. <u>80 gpm in a hoistway with four elevators.</u>		11/6/2018 – Motion to adopt.
38f2j.	382.36 (14)	This section represents items 38fa through 38f2i. Also refer to items 27a6., 38e1, 38f, 38f1, and 38f2.	DIS	382.36 (14) Elevator Hoistway Drains Elevators (a) <u>Discharge.</u> 1. Drains serving elevator hoistways shall discharge specified in Table 382.38-1. 2. Drains serving elevator hoistways may not connect directly with the storm drain system by means of gravity flow piping. 3. A drain serving an elevator hoistway that discharges to a sump shall have a submerged inlet constructed to maintain a minimum 6-inch trap seal. (b) <u>Sumps.</u> 1. A sump may not be installed in an elevator machine room. 2. A sump located in an elevator hoistway may only receive storm or clear water waste from the elevator hoistway or the elevator machine room, or both. Note: See ch. SPS 382 Appendix for further explanatory material. 3. Where a sump is installed in an elevator hoistway, the rim may <u>shall</u> be level with the floor. 4. <u>A sump shall have a removable cover of sufficient strength for anticipated loads.</u> (c) <u>Size.</u> Where required, the aggregate capacity for drainage from the hoistway shall be at least one of the following: 1. 30 gpm in a hoistway with one elevator. 2. 50 gpm in a hoistway with two or three elevators. 3. 80 gpm in a hoistway with four elevators.		12/18/2018 - START HERE. This section incorporates previous revisions as shown above. The struck and underlined portions represent new proposed changes.

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				<p><u>(d) Floor drains serving elevator door areas. When installed, emergency floor drains intended solely to minimize the infiltration of water into an elevator hoistway, shall utilize the conditions of this paragraph.</u></p> <ol style="list-style-type: none"> 1. <u>In lieu of individual traps, a single trap may serve multiple floor drains on a single floor.</u> 2. <u>Where multiple floor drains are served by one trap, an un-trapped floor drain may serve the cleanout requirements under s. SPS 382.35(3)(a).</u> 3. <u>Discharge shall be as specified in Table 382.38-1.</u> 4. <u>Drain piping serving a single floor, or any portion thereof, shall be sized to accommodate the anticipated design discharge of the fire sprinkler heads that present the potential of introducing water into the elevator hoistway.</u> 5. <u>Where multiple floor levels are served by a single stack, it is permissible to size any portion of that stack to accommodate the anticipated design discharge of the fire sprinkler heads serving a minimum of two floors.</u> 6. <u>A drain stack in connection with only floor drains serving elevator door areas may utilize a combination drain and vent system under s. SPS 382.31(17)(a)3.</u> 		
38f2k	382.36(8) (a)2.	Needed for new elevator sub.	DIS	'Construction and installation'. a. Except as provided in subd. 2. c. and d. <u>and sub. (14) (b)</u> , an interior sump shall have a rim extending at least one inch above the floor immediately adjacent to the sump.	none	
38f2L	382.36(8) (a) 2.c.	Needed for new elevator sub.	DIS	Where a sump is installed in an exterior meter pit or elevator pit , the rim may be level with the floor.	none	
38f2 m.	382.35 (3) (a)	Needed for new elevator sub.	DIS	WHERE REQUIRED. (a) <u>Horizontal drains. All</u> Except as permitted under s. SPS 382.36 <u>(14)(d)2.</u> , all gravity horizontal drains within or under a building shall be accessible through a cleanout in accordance with one of the following requirements:	none	
38f2n	382.31 (17) (a)	If unchanged, combination drain & vent stacks wouldn't be allowed in 382.31(17)(a) 2. Change also needed for new elevator sub.	DIS	<u>Stacks. 1. A-Unless otherwise permitted in subd. 2. or 3., a drain stack may serve as a combination drain and vent system for fixtures in accordance with subd. 1. a. to e.</u>	none	

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38f2o	382.31 (17)(a)3.	Create. Needed for new elevator sub.	DIS	<u>A drain stack may serve as a combination drain and vent system for floor drains serving elevator door areas in accordance with subd. 3. a. to e.</u>	none	
38f2p	382.31 (17)(a)3.a.	Create. Needed for new elevator sub.	DIS	<u>The drain stack shall be limited to serving emergency floor drains serving elevator door areas.</u>	none	
38f2q	382.31 (17)(a)3.b.	Create. Needed for new elevator sub.	DIS	<u>The drain stack shall not be offset horizontally above the lowest branch connection.</u>	none	
38f2r	382.31 (17)(a)3.c.	Create. Needed for new elevator sub.	DIS	<u>The developed length of any trap weir vented by the stack to the drain stack shall not exceed the limits specified in Table 382.31-1.</u>	none	
38f2s	382.31 (17)(a)3.d.	Create. Needed for new elevator sub.	DIS	<u>Emergency floor drains, provided with individual traps that utilize other means of venting, are permitted to discharge into the stack.</u>	none	
38f2t	382.31 (17)(a)3.e.	Create. Needed for new elevator sub.	DIS	<u>A vent, at least 2 inches in diameter but not less than ½ the diameter of the largest portion of the drain stack, shall extend from immediately above the highest branch connection to a vent terminal in accordance with sub. (16). Note: See ch. SPS 382 Appendix for further explanatory material.</u>	none	
N/A	382.31 (17)(a)3.	This section represents 38f2o to 38f2t.		382.31(17)(a)3. A drain stack may serve as a combination drain and vent system for floor drains serving elevator door areas in accordance with subd. 3. a. to e. a. The drain stack shall be limited to serving emergency floor drains serving elevator door areas. b. The drain stack shall not be offset horizontally above the lowest branch connection. c. The developed length of any trap weir vented by the stack to the drain stack shall not exceed the limits specified in Table 382.31-1. d. Emergency floor drains, provided with individual traps that utilize other means of venting, are permitted to discharge into the stack. e. A vent, at least 2 inches in diameter but not less than ½ the diameter of the largest portion of the drain stack, shall extend from immediately above the highest branch connection to a vent terminal in accordance with sub. (16). Note: See ch. SPS 382 Appendix for further explanatory material.		No action required.

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38 f3.	382.36 (9) (b) 3.	Confusing. Both inlets and outlets are applicable.		'Inlet grates <u>Grates</u> . a. General. All inlets shall be provided with a well-fitted, removable grate of a thickness and strength to sustain the anticipated loads.	None	10/17/2018 – Motion to adopt.
38 f4.	382.36 (10c)	Create new section (10c)	DIS, amended by PAC	<p>(10c) CONTROLLED ROOF DRAINS <u>CONTROLLED FLOW ROOF DRAINS SYSTEMS.</u></p> <p>(a) Sizing. When control-controlled flow roof drains systems are installed, the control flow system shall be sized and installed in accordance with the requirements in this section.</p> <p>(b) (a) Drain down. Controlled flow roof drain systems <u>The detention area shall drain down within 24 hours after the rainfall event.</u></p> <p>(c) (b) Prohibited connections. Controlled flow roof <u>The drains systems</u> may not be connected to secondary roof drain systems or clearwater waste systems.</p> <p>(d) (c) Discharge. All controlled flow roof drain systems <u>The system</u> shall discharge in accordance with Table 382.38-1.</p> <p>(e) (d) Rain fall rate. Controlled 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.</p> <p>(f) (e) Drains. Controlled flow roof drains shall utilize the same drain <u>as specified in the engineered system.</u></p> <p>(g) (f) Overflow. Secondary roof drain systems serving controlled flow roof drainage systems shall be sized for the 100-year, 24-hour storm event, including all cascading loads from higher elevation overflows.</p> <p>(h) (g) Roof Structures. Roof structures served by controlled flow roof drainage systems shall be engineered in accordance with IBC Section <u>section</u> 1611.3.</p> <p>Discussion: Should the term be “controlled flow roof drains”, “control flow roof drain systems”, or “controlled roof drains”? Term used should reflect industry standard language and be consistent throughout.</p>		10/17/2018 – Motion to table. 11/6/2018 – Motion to adopt as amended.
38 f5.	382.36 (10d)	Create new section (10d)	DIS, Amended by PAC	<p>(10d) SIPHONIC ROOF DRAINS.</p> <p>(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.</p> <p>(b) (a) Drain down. Siphonic roof drain systems <u>The detention area shall drain down within 24 hours after the rainfall event.</u></p>		10/17/2018 – Motion to table. 11/6/2018 – Motion to adopt as amended.

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				<p>(e) (b) Prohibited connections. Siphonic roof drain systems may not be connected to conventional roof drainage systems, secondary roof drain systems, controlled flow roof drainage, or clearwater waste systems.</p> <p>(c) Discharge. All controlled flow roof drain systems The system shall discharge in accordance with SPS Table 382.38-1.</p> <p>(d) Rain fall rate. Siphonic roof drain 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.</p> <p>(e) Drains. Siphonic roof drain systems shall be utilize the same drain as the engineered system.</p> <p>(f) 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.</p> <p>(h) Piping design. Hydraulic designs shall be compiled by the manufacturers, ASPE/ANSI Technical Standard 45-2013, ASTM standard F 2021-06, and ASME A112.6.9-2005.</p> <p>(g) Roof Structures. Roof structures served by siphonic roof drain systems shall be engineered in accordance with IBC Section 1611.3.</p> <p>(h) Siphon break. A siphon break shall be provided downstream of a siphonic roof drain system.</p> <p>Note: See appendix for further explanatory material.</p> <p>(DPD/DIS: Add reference to standards to the appendix. Include language in note that the standards may be used to comply with this section.)</p>		
38 f6.	382.36 (11)	Create new pars. under section SECONDARY ROOF DRAINS.	DIS, amended by PAC	<p>(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.</p> <p>(e) Overflow drains. Secondary overflow drains and overflow standpipes rim elevations shall may not exceed 5 inches in height above the adjacent roof elevation served by the primary roof drains.</p> <p>(f) Roof Structures. Roof structures served by controlled flow roof drainage systems shall be engineered in accordance with.</p>		10/17/2018 – Motion to table. 11/6/2018 – Motion to adopt as amended.
38g.	382.36 (12) (a) 4.		DIS, amended by PAC	5. A foundation subsoil drain that discharges by gravity to a storm sewer shall be trapped. A storm building drain serving IBC Section 1611.3 a stormwater sump shall be trapped. The trap shall be provided with cleanouts.	n/a	5/30/2018 – Motion to adopt as amended.
38h.	382.36 (12) (b) 2. a.		DIS	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	5/30/2018 – Motion to adopt as amended. 11/6/2018 – Motion to withdraw proposal.

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38i.	382.36 (12) (b) (8) (a) 5.	Create new subdivisions See #38h.	DIS, amended by PAC	(b) 3. A storm or clearwater sump with a solid cover shall be vented. 4. A radon vent may serve a solid covered sump. (8) (a) 5. <u>Solid covered sumps. A storm or clearwater sump with a solid cover shall be vented. The vent shall terminate a minimum of one inch above finished floor and sized as per SPS Table 382.31-4. In lieu of a separate vent, a sealed sump may incorporate a radon vent connected to the subsoil drain or sump cover.</u>		10/17/2018 – Motion to table. 11/6/2018 – Motion to adopt as amended.
38j.	382.36 (13) (b)	Additional information needed to review plans.	DIS	<u>Plan information.</u> An operation and maintenance plan as required in par. (a) shall include at least all of the following information, applicable to the system: <u>1c. Pre-construction runoff volume.</u> <u>1g. Post-construction runoff.</u> <u>1n. Infiltration volume.</u> <u>1r. Detention volume.</u> <u>Renumber from 1 to 1w.</u> Accumulated solids or byproduct removal requirements. 2. Identification of standards. <u>DPD: renumber per drafting rules.</u>	minimal	10/17/2018 – Motion to table. 11/6/2018 – Motion to adopt as amended.
39.	382.365 (3) (a)	Confusing language. Infiltration is separate from reuse.	DIS	INFILTRATION SYSTEM DESIGN. (a) <u>Influent quality.</u> 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. <u>6/4/17 Discussion: Infiltration is another section of rule.</u>		6/14/2017 - 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	<u>3.</u> 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.	6/14/2017- Motion to adopt.

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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 <u>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</u> 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) <i>Note: See appendix for explanatory material. (DPD/DIS to determine if standards will be placed in table in SPS 381 (adopted) or in appendix.)</i>		<i>6/14/2017 - Motion to Table 41-45 until next meeting. 8/9/2017 - Motion to table 41-45 until final copy of standard 1002 is available. 5/30/2018 – DPD to provide links to final versions of standards.</i>
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 <u>department</u> approval.		<i>5/30/2018 – Motion to table.</i>
42.	382.365 (4)	Codifying current practice	DIS	INSTALLATION. (a) <u>Bioretention systems shall comply with Wisconsin Conservation Practice Standard 1004 & ?</u> Renumbered to (b): <i>Orientation.</i> Except for subsurface irrigation systems, all of the following shall apply: Discussion: Wisconsin Conservation Practice Standard 1004 contains best practices specific construction requirements.		<i>8/9/2017 - Table until final copy of standard 1002 is available.</i>
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 <u>Wisconsin Conservation Practice Standard 1002.</u>		<i>8/9/2017 - Table until final copy of standard 1002 is available.</i>
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 <u>Wisconsin Conservation Practice Standard 1002.</u> Table 382.365-3. To determine the		<i>8/9/2017 - Table until final copy of standard 1002 is available.</i>

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				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.		
45.	382.365 (c)2.	Incorp. WI CP Standards. Relates to storms	DIS	Repeal Table 382.365-1 to 3.		8/9/2017 - Table until final copy of standard 1002 is available.
45a.	382.37 (2) (g)	Revise	DIS	(g) A permanent supply of water shall be provided to wash down the drain receptor and pad. The water supply shall be:		10/17/2018 – Motion to adopt.
45b.	382.37 (3) (a) 8.	Create new subd. 8.	DIS, Amended by PAC	8. A camping unit may discharge wastewater into a transfer container tank . The connection to the transfer container tank shall be made water tight. The transfer container tank shall be provided container tank with a minimum 2-inch screened vent that is screened or turned downward.		10/17/2018 – Left off here. 11/6/2018 – Motion to adopt as amended.
45c.	382.37 (3) (b) 2. a. and b.	Revised, add new language, a. and b. DIS to confirm if this is the correct placement for additional language.	DIS	2. If water is provided to a campsite, individual approved backflow protection shall serve each hose connection in accordance with s. SPS 382.41. a. <u>Wye connectors are prohibited.</u> b. <u>Prior to infiltrating, pretreatment shall be performed for parking lot and new road construction.</u>		11/6/2018 – Left off here.
45d.	382.37 (3) (b) 4. and 5.	Create new subd. 4. and 5.	DIS	4. <u>The water connection to a camping unit may be plumbed direct if the fixtures comply with provisions of chs. SPS 382 and 384.</u> 5. <u>An indirect water connection may be made to a camping unit with approved cross connection control.</u>		
46.	382.37 (3) (b) 4.	New - Issues w/water supply quality & effective means to flush out system.	DIS, amended by PAC	<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>	More restrictive	6/14/2017 - Left off here. 8/9/2017 - Motion to create language as shown. 8/9/2017 - Motion to create note “See Appendix 382 for additional information.”

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						8/9/2017 - Motion to add table 10.10.2.1.3 to appendix 382.																					
46a.	Table 382.38-1 <u>4m. and 9m.</u>	Revise table, Add new uses 4m. and 9m.	DIS	<p align="center">Table 382.38 – 1 Allowable Discharge Points by Fixture or Specific Uses</p> <table border="1"> <thead> <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 Dispersalⁱ</th> </tr> </thead> <tbody> <tr> <td><u>4m. Elevator door area drains</u></td> <td align="center">X</td> <td align="center">X</td> <td align="center">X</td> <td align="center">X</td> <td align="center">X</td> <td align="center">X</td> </tr> <tr> <td><u>9m. Open public parking levels</u></td> <td></td> <td></td> <td align="center">X</td> <td align="center">X</td> <td></td> <td align="center">X</td> </tr> </tbody> </table>	Use or fixture	POWTS ^a	Municipal Sanitary Sewer	Municipal Storm Sewer	Ground Surface	Combined Sanitary– Storm Sewer	Subsurface Dispersal ⁱ	<u>4m. Elevator door area drains</u>	X	X	X	X	X	X	<u>9m. Open public parking levels</u>			X	X		X		
Use or fixture	POWTS ^a	Municipal Sanitary Sewer	Municipal Storm Sewer	Ground Surface	Combined Sanitary– Storm Sewer	Subsurface Dispersal ⁱ																					
<u>4m. Elevator door area drains</u>	X	X	X	X	X	X																					
<u>9m. Open public parking levels</u>			X	X		X																					
46b.	382.40 Section ?	New	DIS	<p>Minimum emergency fixture water supply requirements are as follows: <u>Eye wash ----- .4 gpm’s</u> <u>Face wash ----- 3 gpm’s</u> <u>Drench hose ---- --3 gpm’s</u> <u>Drench shower – 20 gpm’s</u></p>																							
46c.	382.40 (3) (b)	Revise	DIS	(b) <u>Hot water required.</u> Except as provided in subds. 1. And 2., hot water shall be provided to all plumbing fixtures, appliances and equipment used for personal washing, <u>building maintenance</u> , culinary purposes or laundering.																							
46d.	382.40 (3) (d) 4.	Revise	DIS	4. The installation of each reduced pressure principle backflow preventer, reduced pressure <u>principle fire protection principle</u> 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	<p><i>Multipurpose piping system.</i> 1. Except as provided in subd. 2., a multipurpose piping system shall be designed and installed in accordance with this section and <u>the current</u> NFPA 13D. Consider additional language to address multifamily facilities. <u>[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.]</u></p>		8/9/2017 - No committee action required.																					
47 a1.	382.40 (3) (e) Check placement	Create new exceptions	DIS	<p><u>2. Multipurpose piping system.</u> <u>With the following exceptions.</u> <u>1. Materials for multipurpose piping systems need to be acceptable under NFPA 13D or 384.30(4)(e) and 384.30(5).</u></p>	Less restrictive																						

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	of Exception s. Revise (e) 1.?			<p>2. A partial or single sprinkler per NFPA 13D may be installed in a dwelling unit not required to be sprinkled.</p> <p>3. Limited purpose or limited area sprinklers may be installed in areas not required to be sprinkled.</p> <p>4. 5 gpm shall be added onto the multipurpose calculations for each dwelling connected to a common water supply system.</p> <p>5. A flow test shall be performed at the controlling sprinkler before the system is put into operation.</p>																		
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 SPS 325 (UDC) due to repeal of s. SPS 325.01 (2) (a) to (c).	PAC	<p>Create SPS 382.40 (5) (am) <i>(am) Tankless water heaters.</i> [DPD & DIS to develop verbiage for intro.]</p> <p><i>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.</i></p> <p><i>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.</i></p> <p><i>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.</i></p> <p><i>SPS 382.40 (5) (a) (note) Note: Residential exclusion see s. SPS 325.01 (2).</i></p>		9/19/2017 - Motion to create SPS 382.40 (5) (am) and repeal 382.40 (5) (a) (note).																
47b.	382.40 (5) (b) 1. a.	Add		a. A hot circulation system shall be independent of other systems.																		
47c.	Table 382.40–2	Revise table re: fixture types, Add new residential type	DIS	<p align="center">Table 382.40–2 Water Supply Fixture Units for Public Use Fixtures</p> <table border="1" data-bbox="632 1219 1528 1430"> <thead> <tr> <th>Type of Fixture^a</th> <th>Hot</th> <th>Cold</th> <th>Total</th> </tr> </thead> <tbody> <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 align="center">1</td> <td align="center">1</td> <td align="center">1.5</td> </tr> </tbody> </table>	Type of Fixture ^a	Hot	Cold	Total	Automatic Clothes Washer, Individual Commercial Type				Automatic Clothes Washer, Large Capacity Commercial Type				Automatic Clothes Washer, Residential Type	1	1	1.5		
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48.	382.40 (7) (d)1.	Additional pressure need by manufacturers	DIS, amended by PAC	Except as provided in subd. 1. a. to e d., water supply systems shall be designed to provide at least 8 psig of flow pressure at the outlets of all fixture supplies. <u>d. Minimum pressure required by manufacturer for fixture, or appliance, or equipment to operate.</u>		8/9/2017 - Motion to adopt as amended.
48a.	382.40 (7) (d) 4.	Revise	DIS	4. If the pressure <u>or water supply volume</u> 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 <u>may</u> be installed to increase the supply of water.		
48b.	382.40 (7) (d) 4. a.	Revise	DIS	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. <u>Pressure gauges shall be installed on the influent and effluent piping.</u>	Minimal	
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, <u>except for combination sprinkler distribution piping as designed in par. (3) (e).</u>		
49.	382.40 (8) (b) 10.	New – Water supply quality issues and inability to effectively to flush lines.	DIS, amended by PAC	<u>Private water mains shall be provided with provisions for effective flushing of the system, at a minimum of 10 feet per second until clear.</u> <u>Note: See ch. SPS 382 appendix for further explanatory information.</u> [Note to DPD.: Ensure notes refer to correct reference.]	More restrictive	8/9/2017 - 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 <u>may</u> be one nominal pipe size smaller than the <u>meter required distribution piping.</u>		
50.	382.40 (8) (d) 7.	New - Issues w/water supply quality & effective means to flush system.	DIS, amended by PAC	Create: <u>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.</u> 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]	8/9/2017 - Motion to adopt as amended. 8/9/2017 - 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.	DIS, amended by PAC	<u>Flushing and disinfection of potable water supply systems.</u> 1. a. Before a newly constructed water supply system is to be put into use, the piping of the system shall be <u>filled flushed with water and disinfected. and allowed to stand for at least 24 hours.</u>		8/9/2017 – Motion to table until next

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		Incorporates IPC & UPC model codes.		<p>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 <u>and with no trace of disinfectant</u> at the outlet.</p> <p>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.</p> <p><i>Check IPC and UPC provisions for disinfection for potable water supply systems. Review guidance documents for disinfection and incorporate into code.</i></p> <p><i>Could incorporate language from IPC 610.</i></p> <p>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?</p> <p>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.</p> <p>Health concerns, DIS finds out after the fact during routine inspections, added after plan review.</p> <p>Concern: 200 parts per million – safety concern for occupants inside a building.</p>		<p><i>meeting to identify standard.</i></p> <p><i>10/10/2017 – Motion to adopt language as amended.</i></p>
51 a1.	<p>382.40(8) (j)</p> <p>DIS - Check proposed placement. (There’s already a (j). Place before (j) or after (k)?)</p>	<p>New Code</p> <p>(DPD to correct numbering per drafting rules.)</p>	DIS	<p><u>(8) (j) Water tanks. 1. Pneumatic pressure tanks. Pneumatic pressure tanks shall conform to all of the following:</u></p> <p><u>a. Tanks shall conform to ch. SPS 384.</u></p> <p><u>b. Tanks shall be served by a pressure relief valve.</u></p> <p><u>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.</u></p> <p><u>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.</u></p> <p><u>e. Tanks shall be stamped or labeled showing the manufacturer's name, model number, the tank volume, year manufactured, and the allowable working pressure.</u></p>		

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				<p><u>2. Storage tanks. a. Storage tanks shall be sized to turn over a minimum of once every three days.</u> <u>b. Tanks shall conform to s. SPS 384.25.</u></p> <p><u>3. Protection. a. Storage tanks shall be constructed and maintained to protect the water supply in accordance with the following requirements:</u> <u>b. All water storage tanks and structures shall be watertight which exclude water, rain, snow, birds, animals, insects, and dust.</u> <u>c. Exterior translucent tanks shall be covered.</u></p> <p><u>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.</u></p> <p><u>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.</u></p> <p><u>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.</u></p> <p><u>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.</u> <u>b. The overflow outlet pipe shall be provided with a 4-mesh non-corrodible screen.</u> <u>c. The overflow outlet pipe shall be of approved water distribution as per SPS Table 384.30-8.</u> <u>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.</u> <u>e. Overflow piping shall be visible at the discharge location.</u> <u>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.</u></p>		

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				<p><u>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).</u> <u>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.</u></p> <p><u>9. Access. a. Water tanks or structures shall have convenient access for cleaning and maintenance.</u> <u>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.</u> <u>c. Manhole covers for buried tanks or structures shall be no less than 24 inches above a sloped finished grade.</u> <u>d. Manholes shall be locked at all times except when being used by authorized personnel.</u> <u>e. Inspection covers shall be water tight and lockable.</u> <u>f. Interior paints or coatings shall be NSF/ANSI Standard 61 certified.</u></p> <p><u>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.</u></p> <p><u>11. Vents. a. Storage tanks shall be vented to the atmosphere. The overflow pipe may not be considered a vent.</u> <u>b. Vents shall be constructed of water distribution materials as per SPS Table 384.30-8, or as approved by the department.</u> <u>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.</u> <u>d. Minimum vent size shall allow an air flow consistent with water inflow and outflow rates. Minimum size shall be 2 inches.</u></p> <p><u>12. Location. a. Exterior tanks may not be located within a flood plain or floodway or within 2 feet above the regional flood elevation.</u> <u>b. Grading the surrounding area shall be such that surface water will not stand within 50 feet of the storage tank.</u> <u>c. Storage tanks shall be located in an area that is accessible year-round.</u></p>		

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				<p><u>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.</u></p> <p><u>e. The top roof of an exterior tank may not be less than 2 feet above the normal ground surface.</u></p> <p><u>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.</u></p> <p><u>b. Manual valves shall be installed in the water distribution system to isolate tank and pump equipment from the water distribution system.</u></p> <p><u>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.</u></p> <p><u>d. Drain valves shall be provided for maintenance purposes for access to the storage tank.</u></p> <p><u>e. Water supply inlet piping shall be provided with a control valve, check valve, or solenoid valve.</u></p> <p><u>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.</u></p> <p><u>g. Tank water levels shall be able to be observed by means of a sight level indicator.</u></p> <p><u>h. A pressure gauge shall be installed downstream of the storage tank and booster pumps.</u></p> <p><u>i. A thermometer or sensors shall be installed on the storage tank for water temperature monitoring purposes.</u></p> <p><u>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.</u></p> <p><u>b. The influent water supply shall terminate a minimum of 6 inches above the high water.</u></p> <p><u>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.</u></p> <p><u>b. Booster pumps shall be installed according to the manufacturer specifications and s. SPS 382.40(7)(d)4.</u></p> <p><u>c. Effluent pumps shall be installed to provide continuous flow through the storage tank and connect to the water distribution system.</u></p>		

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				<p><u>d. A flow rate equal to the storage tank capacity shall be provided within a 24-hour period.</u></p> <p><u>e. The secondary pump piping shall have required check valves, pressure gauge, isolation valves, and sampling faucet installed on the system.</u></p> <p><u>f. The effluent water from the storage tank to a booster pump shall be provided with a shut off for maintenance purposes.</u></p> <p><u>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.</u></p> <p><u>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".</u></p> <p><u>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.</u> <u>b. Inspections of storage facilities 10,000 gallons or greater shall be by a professional tank inspection firm or by a registered professional engineer.</u> <u>c. Maintenance shall include removal of sedimentation and biofilm, repairs as necessary to maintain good working condition.</u> <u>d. All storage facilities shall be inspected a minimum of every 5 years, unless otherwise approved by the department.</u> <u>e. Inspections of vent and overflow screens and hatches shall be conducted once per year.</u></p> <p><u>19. Records. a. A record shall be kept on dates of cleaning, relining, and replacement of components or parts.</u> <u>b. Department representatives shall be provided access to the water storage system and records upon request.</u></p>		

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51 a2.	Table 382.40-8	Pipe wall thicknesses between the two standards are too different to be on the same table	DIS	<p align="center">Table 382.40-8</p> <p align="center">CHLORINATED POLYVINYL CHLORIDE TUBING, ASTM D2846 and F442, SDR 11; (C=150)</p> <p><u>Justification:</u> ASTM F442 SDR11 pipe dimensions. ¾" OD=1.050 Min wall=.095X2=.190 1.050-.190=.860 1" OD =1.315 Min wall=.119X2=.238 1.315-.238= 1.077</p> <p>ASTM D2846 SDR11 pipe dimensions. ¾" OD=.875 Min wall=.080X2=.160 .875-.160=.715 1" OD=1.125 Min wall=.102X2=.204 1.125-.204=.921</p>	none	
51 a3.	Table 382.40-12	Create, Delete table from Appendix and move with the other 11 tables showing similar information	DIS	<p align="center">Table 382.40-12</p> <p align="center">Maximum Allowable Load for PVC SDR 80, ASTM 1785 (½ to 2 inches)</p>	none	
51a4.	Table 382.40-13 Create	Create, Delete table from Appendix and move with the other 11 tables showing similar information	DIS	<p align="center">Table 382.40-13</p> <p align="center">Maximum Allowable Load for PVC SDR 80, ASTM 1785 (2 ½ to 6 inches)</p>	none	
51a5.	Table 382.40-14 Create	Create, Delete table from Appendix and move with the other 11		<p align="center">Table 382.40-14</p> <p align="center">Maximum Allowable Load for CPVC SDR 80, ASTM F 441 (½ to 2 inches)</p> <p>NOTE: This table has a column for 3/8", this column should be removed so there is no confusion on allowing 3/8" water distribution piping.</p>	none	

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		tables showing similar information				
51a6.	Table 382.40-15 Create	Create, Delete table from Appendix and move with the other 11 tables showing similar information		<u>Table 382.40-15</u> <u>Maximum Allowable Load for CPVC SDR 80, ASTM F 441 (2 ½ to 10 inches)</u>	n/a	
51 a7.	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 <u>810.15</u> requires the supplier of water to develop and implement a comprehensive cross connection control program.	None	
51 a8.	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 a9.	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.	DIS	5. A cross connection shall <u>may</u> not be considered to exist at the hose threaded outlet installed for the sole purpose of <u>any of the following</u> : 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 <u>bm. Connecting individual portable dialysis machines when enclosed in a lockable box.</u> c. Connecting individual residential <u>-type</u> automatic clothes washers.	n/a	

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		Language was proposed for 382.50 also.				
51 a10.	382.41 (3) (b) 6. a. Note	Correct note to match current DNR code	DIS	Note: The interconnection of a public water supply system and another source of water is addressed in ss. NR 811.09 <u>811.06 and 811.07</u> and must be approved by the Department of Natural Resources.	None	
51 a11.	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 <u>that provide</u> water for nonrequired potable water uses.	None	
51 a12.	382.41 (3) (d) Create <u>1.</u> and <u>2.</u>	Revise to clarify confusion whether a cross connection control method, device, or assembly could be bypassed.	DIS	<i>Prohibitions.</i> <u>1.</u> The use of a toxic solution as a heat transfer fluid in single-wall heat exchanger for potable water is prohibited. <u>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.</u>	n/a	
51 a13.	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 <u>an atmospheric type</u> vacuum breaker shall be installed such that the bottom of the device or the critical level mark on the device is at least <u>6" inches</u> above all of the following:	n/a	
51 a14.	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 a15.	382.41 (4) (k) 2.	Update code to reflect	DIS	A pressure vacuum breaker assembly shall be located only outside.	n/a	

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		terminology in the adopted standard.		<p><u>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.</u></p> <p>Note to DPD: Repeal (4) (k) 2. and create (4) (k) 2m.</p>																																																																															
51 a16.	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																																																																														
51 a17.	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	<p align="center">Table 382.41-1</p> <p align="center">Acceptable Cross Connection Control Methods, Devices, or Assemblies</p> <table border="1"> <thead> <tr> <th rowspan="4">Methods or Assemblies of Cross Connection Control (Standard)</th> <th colspan="8">Situations and Conditions</th> </tr> <tr> <th colspan="4">Backpressure</th> <th colspan="4">Backsiphonage</th> </tr> <tr> <th colspan="2">Low Hazard</th> <th colspan="2">High Hazard</th> <th colspan="2">Low Hazard</th> <th colspan="2">High Hazard</th> </tr> <tr> <th>Continu ous</th> <th>Noncon tinuous</th> <th>Continu ous</th> <th>Noncon tinuous</th> <th>Continuo us</th> <th>Noncon tinuous</th> <th>Conti uous</th> <th>Noncon tinuous</th> </tr> <tr> <th colspan="2">Pressure</th> <th colspan="2">Pressure</th> <th colspan="2">Pressure</th> <th colspan="2">Pressure</th> </tr> </thead> <tbody> <tr> <td>Air-gap Fittings for use with Plumbing Fixtures, Appliances, and Appurtenances (ASME A112.1.3)</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>Air Gaps (ASME A112.1.2)</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>Atmospheric Vacuum Breaker (CAN/CSA B64.1.1)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> </tr> <tr> <td>Backflow Preventers with an Intermediate Atmospheric Vent (ASSE 1012)</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> </tbody> </table>	Methods or Assemblies of Cross Connection Control (Standard)	Situations and Conditions								Backpressure				Backsiphonage				Low Hazard		High Hazard		Low Hazard		High Hazard		Continu ous	Noncon tinuous	Continu ous	Noncon tinuous	Continuo us	Noncon tinuous	Conti uous	Noncon tinuous	Pressure		Pressure		Pressure		Pressure		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				
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				Barometric Loops					<u>X</u>	X	X	X		
				<u>Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies</u>	<u>X</u>	<u>X</u>								
				Dual Check Valve Type with Atmospheric Port Backflow Preventer (CAN/CSA B64.3)	<u>X</u>	X			X	X				
				Hose Connection Backflow Preventers (ASSE 1052)	X ^a	<u>X</u>	X ^a	<u>X</u>	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	<u>X</u>	X	X	X	X	X	X	X		

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51 a18.	Table 382.41-2 (left-side column)	Revise/add to table	DIS	<p align="center">Table 382.41-2 Acceptable Cross Connection Control Methods, Devices or Assemblies for Specific Applications</p> <table border="1"> <tr> <th align="center" colspan="2">Methods or Assemblies (Standard)</th> </tr> <tr> <td>Water Closet Flush Tank Ball Cocks (ASSE 1002)</td> <td>Anti-siphon fill valves for water closet tanks (ASSE 1002)</td> </tr> <tr> <td colspan="2">Commercial Dishwashing Machines (ASSE 1004)</td> </tr> <tr> <td colspan="2">1001, ASSE 1011, ASSE 1020, ASSE 1052, or ASSE 1056.</td> </tr> <tr> <td colspan="2">Wall Hydrants, Frost Proof Automatic Draining Anti-Backflow Type (ASSE 1019), types A, B, or C</td> </tr> </table>	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, B , or C																																	
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51 a19.	382.41 (3) (b) 5. c.	Revise	DIS	<p>Connecting individual residential type automatic clothes washers. OR Connecting individual residential automatic clothes washers home laundry equipment. OR Connecting individual residential automatic clothes washers.</p>																																										
51 a20.	382.41 (3) (b) 6. b.	Repeal (b) 6. b. and incorporate	DIS	<p>(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</p>																																										

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		6. note into code language.		<p>sprinkler systems, standpipe systems, and processing purposes, which provides potable water for nonrequired potable water uses.</p> <p>(b) 6. <u>Note bm.</u> Cross connection control devices used in conjunction with automatic fire sprinkler systems are to <u>shall</u> be listed by an acceptable testing agency for such an application under the standards governing the design and installation of automatic fire sprinkler systems.</p> <p><u>Note to DPD: renumber 6. b. (Note) to 6. bm. and amend.</u></p>		
51 a21.	382.41 (4) (g) 2.	Repeal	DIS	<p>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.</p>		
51 a22.	382.41 (5) (f)	Revise	DIS	<p>The installation of a reduced pressure principle backflow preventer, a reduced pressure <u>principle</u> fire protection principle backflow preventer, a reduced pressure detector backflow preventer, a reduced pressure detector fire protection backflow prevention assembly, a double check backflow prevention assembly, <u>a double check fire protection backflow prevention assembly,</u> a double check detector <u>fire protection backflow prevention assembly</u> backflow preventer, a pressure vacuum breaker assembly, and a spill resistant vacuum beaker shall conform to all of the following limitations:</p>		
51 a23.	382.50 (2) (b) 1. <u>a.</u>	Create 1. a.	DIS	<p>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.</p> <p><u>a. Spouts shall have laminar flow in facilities listed in par. (3) (b).</u></p>	Minimal	
51a.	382.50 (2) (b) 2. <u>a.</u> and <u>b.</u>	Renumber to a. and create b. (Related provision: See 51b.)	DIS	<p>382.50 (2) (b) 2. ‘Actions.’ All fixtures used by medical and nursing staff, and all lavatories used by patients <u>or residents</u>, and food handlers shall be equipped with valves that can be operated without the use of hands.</p> <p><u>a.</u> 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.</p> <p><u>b.</u> A single lever faucet handle may be used in lieu of wrist blades.</p> <p>5/30/18 Discussion: Per DIS, DSPS does not have an MOU with DHS and is developing a guidance document.</p>		5/30/2018 – Motion to add “residents” and adopt as amended.
51b.	382.50 (2) (b) 2. <u>c.</u>	Create c. (Related: See 51a.)	DIS	<p><u>c.</u> 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.</p>	Minimal	

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
51c.	382.50 (3) (a) 2.	All services are required as written	DIS	(3) WATER SUPPLY SYSTEMS. (a) <i>Hospital water supply systems</i> . 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), <u>except for additional services supplying water to additions deemed non-essential as defined in a hospital water management plan.</u>	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) <i>Hospital, community-based residential facility, inpatient hospice, and nursing home water supply systems</i> . 1. Water supply systems serving a hospital, community-based residential facility, inpatient hospice, and nursing home, <u>or additions to the facilities without a building division as defined by the department of health services [need the specific DHS provision]</u> , shall comply with all of the following: <u>a. Facilities with a population exceeding 250 occupants shall have a water management plan. The management plan shall include all of the following:</u> 1. <u>An emergency water contingency plan on the loss or contamination of the water supply.</u> 2. <u>A bacterial control plan.</u> 3. <u>The emergency and routine disinfection procedures.</u> 4. <u>The identity of the individual responsible for the water quality.</u> 5. <u>The provisions for the periodic flushing of the water supply system.</u>		
51e.	382.50(3) (b) 7. <u>b.</u>	Prevent adult day care patients from being burned	DIS	<u>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.</u> <u>Note to DPD: Renumber (intro.) to <u>a.</u> in order to create b.</u>	Minimal	
51f.	382.50(3) (b) 7. <u>c.</u>	Create new subd.		<u>c. The use of limit stops in faucets to achieve a maximum temperature of 115 degrees F is prohibited.</u>	Cost-savings for customers. Saves customers expense of adding thermostatic mixers after they have already purchased limit stop faucets that do not perform	
52.	382.50 (3) (b) <u>9.</u>	Issues w/ bacterial control.	DIS, amended by PAC	Create 382.50(3) (b) 9. and 382.40 (8) (i) 5. <u>9. Dead ends within the water distribution systems cannot exceed 10 pipe diameters.</u>	Major - Long-term benefit [Need cost]	8/9/2017 - Motion to amend definition for 'dead ends' as shown.

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NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
	(See also #53)	Relates to HC facilities. Goal is to minimize/prevent stagnation of water. (See related #53 & 57b)		Amend 381.01 (68) definition for “dead end” and create <u>2</u> . 1.a branch leading to...(no amendment to 1.) <u>2. Any portion of the water distribution system terminating by means of a plug, cap or closed fitting and with no outlet.</u> 8/9/17 Discussion: Consider stagnation prevention in healthcare section. Consider defining & eliminating dead ends.		8/9/2017 - Motion to create 382.40 (8) (i) 5. and 382.50 (3) (b) 9. to read as shown.
53.	382.50 (3) (b) <u>10</u> .	Issues of bacterial control. CBRFs under DHS rule. (See related #52 & 57b.)	DIS, amended by PAC	Create 382.50(3) (b) 10. <u>10. Water outlets accessible to patients shall have laminar flow. without the use of an aerator.</u>	Major	8/9/2017 - Left off here. 9/19/2017 - Motion to create SPS 382.50 (3) (B) 10. and adopt as amended.
54.	382.50 (3) (b) 4.	greater legionella control (See related: #54a.)	DHS to DIS, amended by PAC	Amend 382.50 (3) (b) 4. <u>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.</u> <u>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.</u> 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°F) 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. <u>Action items:</u>	Significant impact, added expense [Need costs and data to support proposal]	9/19/2017 - Motion to table until next meeting pending supporting data & information. 10/10/2017 - Motion to create 328.50 (3) (b) 4. b.

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NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
				<p>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</p> <p>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.</p>		
54a.	382.50 (3) (b) 4. <u>c.</u>	Create c. (See related: #54)	DIS	<u>c. Control valves shall automatically regulate the temperature of the water supply of the distribution system that exceeds 140 degrees to patient areas.</u>		
55.	382.50 (3) (b) 5.	Temperature maintenance issues	DIS	<p>Water provided to patient showers, therapeutic equipment and all types of baths shall be installed with control valves <u>that are pressure balanced and thermostatically controlled</u> which automatically regulate the temperature of the water supply to the fixture fitting outlet within a temperature range of 110^oF to 115^oF. Such control valves shall automatically reduce flow to 0.5 gpm or less when the water supply to the fitting outlet exceeds 115^oF or when loss of cold water pressure occurs.</p> <p>Discussion: Currently 3 choices. Maintenance challenges to readjust. Not practical. Eliminate pressure balance.</p>	More cost initially, offset w/lower maintenance cost. Reduces staff time.	<p>9/19/2017 - Left off here.</p> <p>10/10/2017 - Motion to adopt as proposed.</p> <p>[Note to DPD: Need to revise appendices accordingly.]</p>
56.	382.50 (3) (b) 6.	<p>Codifying current practice.</p> <p>ASHRAE has new standards and needs further review.</p> <p>Create note.</p> <p>Section in Yellow added after 10/10/17 motion. Revision</p>	DIS	<p>Hot water distribution systems shall be installed and maintained to provide bacterial control by one of the following methods:</p> <p>a. Water stored and circulation initiated at a minimum of 140^oF and with a return of a minimum of 124^oF.</p> <p>b. Water chlorinated at 2 mg/L residual.</p> <p>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.</p> <p>e. f. Another disinfection system approved by the department but may not include a heat recovery system.</p> <p><u>Note: See explanatory information for further information.</u></p> <p>Discussion: “Shocking system”. H²O 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.</p>	<p>Significant impact - added expense</p> <p>[Need costs and data to support proposal]</p>	<p>10/10/2017 - Motion to adopt with added note.</p>

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NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
		<p>added under 56a.</p> <p>Note to DPD: Repeal b., create bm. to e., and renumber c. to f.</p>		<ul style="list-style-type: none"> - 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. 		
56a.	382.50 (3) (b) 6. <u>bm. to e.</u>	Create <u>bm. to e.</u> (See related: #56)	DIS	<p><u>bm. Chloride dioxide.</u> <u>cm. Ultraviolet.</u> <u>d. Copper-silver ion.</u> <u>e. Chloramine.</u> e. f. Another disinfection system approved by the department <u>but may not include a heat recovery system.</u></p>		
57.	382.50 (3) (b) 8.	Clarification	DIS, amended by PAC	<p>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°F. <u>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.</u></p> <p>10/10/17 Discussion: Clarify that failsafe needs to be in place. Prevents hot water creep/malfunction.</p>		10/10/2017 - Motion to amend as shown.
57a.	382.50 (3) (b) 7.		PAC	<p>7. A water distribution system may not be designed, installed and maintained so that the maximum temperature to fixture fitting outlets <u>Water discharged from a fixture fitting outlet</u> accessible to patients may not exceeds exceed 115°F.</p>		10/10/2017 - Motion to amend as shown.
57b.	382.50 (3) (b) <u>11.</u>	Create <u>11.</u> (See related: #52, 53, 57c)	DIS	<u>11. Hot water bacterial controlled distribution piping shall be labeled with bacterial control measure when other than thermal disinfection is used.</u>	Minimal	
57c.	382.50 (3) (b) <u>12.</u>	(See related: #52, 53, 57b)	DIS	<p><u>12. Where a dialysis boxes may be is installed in a patient room or a patient toilet room, all of the following shall apply:</u></p> <ul style="list-style-type: none"> <u>a. The dialysis boxes shall be lockable.</u> <u>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.</u> 		

SPS 382 DESIGN, CONSTRUCTION, INSTALLATION, SUPERVISION, MAINTENANCE, AND INSPECTION OF PLUMBING

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				<u>c. A receptor located within a dialysis box shall be sealed when not in use.</u>																																						
57d.	Table 382.50-1 Title	Revise Title in table - 2 nd column under heading "Type of Spout"	DIS	Gooseneck or provide a 5-inch minimum clearance <u>clearance</u>																																						
57e.	Table 382.50-1	Create new section in table	DIS	<p align="center">Table 382.50 – 1 Spouts and Actions Required in Health Care and Related Facilities</p> <table border="1"> <thead> <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> </thead> <tbody> <tr> <td><u>COMMON AREAS</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>Day rooms</u></td> <td></td> <td align="center"><u>X</u></td> <td></td> <td align="center"><u>X</u></td> <td align="center"><u>X</u></td> </tr> <tr> <td><u>Hallways</u></td> <td></td> <td align="center"><u>X</u></td> <td></td> <td align="center"><u>X</u></td> <td align="center"><u>X</u></td> </tr> <tr> <td><u>Patient waiting area</u></td> <td></td> <td align="center"><u>X</u></td> <td></td> <td align="center"><u>X</u></td> <td align="center"><u>X</u></td> </tr> <tr> <td><u>Vestibule waiting area</u></td> <td align="center"><u>X</u></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Fixture Location	Standard	5-inch Minimum Clearance	Hand	Wrist	Foot, Knee, or Electronic Sensor	<u>COMMON AREAS</u>						<u>Day rooms</u>		<u>X</u>		<u>X</u>	<u>X</u>	<u>Hallways</u>		<u>X</u>		<u>X</u>	<u>X</u>	<u>Patient waiting area</u>		<u>X</u>		<u>X</u>	<u>X</u>	<u>Vestibule waiting area</u>	<u>X</u>						
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57f.	382.51 (2) (e)	Create (e)	DIS	(2) (e) <u>The entire water supply system shall be designed for periodic flushing.</u>	Minimal																																					
58.	382.41 (5) (d) 1.	Alternate standard. Creation of "b" is an exception to existing code.	DIS, amended by PAC	<p><u>a. A cross connection control device or cross connection control assembly may not be located in uninhabitable spaces susceptible to flooding.</u></p> <p><u>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.</u></p> <p>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.</p>	Less restrictive.	10/10/2017 - Motion to adopt. 3/20/2018 - Ryan to create definition for method and better definition for cross connection control assembly.																																				
58a.	382.60 (2)	Venting	DIS	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, <u>except PVC used for venting may have a maximum horizontal spacing of 5 feet.</u> The connection of drain piping to a fixture or appliance shall be considered a point of support.		5/30/2018 - 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
				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.		
59.	382.70 (4)	Alternate standard. Infiltration is covered within 382.365	DIS	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.		10/10/2017: Motion to adopt.
		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	<p align="center">Table 384.10</p> <p align="center">SUBMITTALS TO DEPARTMENT</p> <hr/> <p align="center">Product Categories</p> <hr/> <p align="center">3. Health care plumbing and laboratory appliances</p> <hr/> <p>Discussion: DIS explained ways to gain product approval</p> <ol style="list-style-type: none"> Product is listed Alternate approval – requires product approval 		5/30/2018 – Motion to adopt.

SPS 384 PLUMBING PRODUCTS																																						
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS																																
				3. Submission per Table 384.10 4. Voluntary submission under SPS 384.10 (3)																																		
1a.	Table 384.10	Revise row 7	DIS	<p style="text-align: center;">Table 384.10 SUBMITTALS TO DEPARTMENT</p> <hr/> <p style="text-align: center;">Product Categories</p> <hr/> <p>7. Wastewater Water treatment devices used to meet the requirements in s. SPS 382.70</p>																																		
2.	384.10 (3) (d)		DIS	<p>384.10 (3) (d) 1. The department shall <u>may</u> review a submittal under this subsection with input from a technical advisory committee.</p> <p>[This provision was addressed in the POWTS rule project.]</p>		5/30/2018 – Motion to table. [Recommendation withdrawn. [No further action required.]																																
2a.	Table 384.11	Revise (The items in green are superseded by the CSA B64-11 series.)	DIS	<p style="text-align: center;">Table 384.11 DEVICE LISTINGS</p> <hr/> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Device</th> <th style="text-align: center;">Referenced Standard</th> </tr> </thead> <tbody> <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><u>Atmospheric Vacuum Breakers</u></td> <td><u>CAN/CSA B64.1.1</u></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><u>Double Check Valve Backflow Preventers</u></td> <td><u>CAN/CSA B64.5</u></td> </tr> <tr> <td><u>Dual Check Valve Backflow Preventers with Atmospheric Port</u></td> <td><u>CAN/CSA B64.3</u></td> </tr> <tr> <td>Hose Connection Backflow Preventers</td> <td>ASSE 1052</td> </tr> <tr> <td><u>Hose Connection Vacuum Breakers</u></td> <td><u>CAN/CSA B64.2</u></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> </tbody> </table>	Device	Referenced Standard	Anti-siphon Fill Valves (Ballcocks) for Gravity Water Closet Flush Tanks	ASSE 1002	Atmospheric Type Vacuum Breakers	ASSE 1001	<u>Atmospheric Vacuum Breakers</u>	<u>CAN/CSA B64.1.1</u>	Backflow Preventers for Beverage Dispensing Equipment	ASSE 1022	Backflow Preventer with Intermediate Atmospheric Vent	ASSE 1012	Backflow Prevention Devices for Hand-Held Showers	ASSE 1014	Chemical Dispensing Systems	ASSE 1055	Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies	ASSE 1015	Double Check Detector Fire Protection Backflow Prevention Assemblies	ASSE 1048	<u>Double Check Valve Backflow Preventers</u>	<u>CAN/CSA B64.5</u>	<u>Dual Check Valve Backflow Preventers with Atmospheric Port</u>	<u>CAN/CSA B64.3</u>	Hose Connection Backflow Preventers	ASSE 1052	<u>Hose Connection Vacuum Breakers</u>	<u>CAN/CSA B64.2</u>	Hose Connection Vacuum Breakers	ASSE 1011	Laboratory Faucet Backflow Preventers	ASSE 1035		
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2b.	384.12	Revise	DIS	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. <u>Cross connection control devices and assemblies shall be labeled with the appropriate applicable standard.</u>																						
2c.	384.20 (5) (a)	Repeal and recreate new provision Use consistent terminology	DIS	Repeal: (a) Automatic clothes washers. Residential type automatic clothes washers shall conform to ASSE 1007. Recreate: (5) (a) <u>Home laundry equipment.</u> 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.																						
2d.	384.20 (5) (e)	Revise Use consistent terminology	DIS	(e) <u>Dishwashing machines.</u> 1. Residential-type household dishwashing machines shall conform to ASSE 1006. 2. Commercial type dishwashing machines shall conform to ASSE 1004.																						
2e.	384.20 (5) (h) 2.	Revise	DIS	2. Food waste grinders shall be <u>trapped separately and</u> connected to a drain of sufficient size to serve the unit, but not less than 1 ½ inches in diameter.																						
3.	384.20 (5) (L) 2.		DIS, amended by PAC	384.20 (5) (L) 2. Except for combination bathtub–shower units, <u>and a shower replacing an existing non-public</u> 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.		5/30/2018 – Motion to amend and adopt as shown.																				

SPS 384 PLUMBING PRODUCTS						
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
3a.	384.20 (5) (L) 4. <u>a</u>	Revise, Create a.	DIS	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. <u>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.</u>		
3b.	384.20 (5) (n) <u>6.</u>	Create 6.	DIS	(n) <u>6. Trough urinals are prohibited.</u>		
3c.	384.20 (5) (n) <u>7.</u>	Create 7.	DIS	(n) <u>7. Urinals requiring water shall have an individual equipped flushing device.</u>		
4.	384.20 (5) (o)		DIS	<u>384.20 (5)(o) 1.c. Water closet materials not listed must meet the provisions of s. SPS 384.20 (3) (b) 7.</u>		5/30/2018 – Motion to table.
4a.	384.20 (5) (o) 1. <u>c.</u>	Create <u>c.</u>	DIS	(o) 1. c. Water closet materials not listed shall meet the provisions of subd. (3) <u>7. and sub. (4).</u>		
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. Ballecks and fill <u>Fill</u> valves shall be of the anti-siphon type and shall conform to ASSE 1002. The critical level mark on the balleck and fill valve shall be located at least one inch above the full opening of the overflow pipe.		
4c.	384.20 (5) (p)	Create, Placement?	DIS	<u>Temperature and pressure relief valve discharge pipe shall comply with ASTM A112.4 or materials listed in Table 384.30-8.</u>	Less restrictive	
5.	384.25 (title)	Expands this section to apply to all types of water	DIS	SPS 384.25 (title) POWTS <u>Water</u> holding components or treatment components.		5/30/2018 – Motion to adopt.
6.	384.25 (1)	Same as #5 above.	DIS	384.25 (1) GENERAL. All POWTS <u>water</u> holding components or treatment components shall conform to the requirements of this section.		5/30/2018 – Motion to adopt.

SPS 384 PLUMBING PRODUCTS												
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS						
6a.	384.25 (2) (e)	Create e. Title, 1., 2., and 3. DPD to renumber in accordance with drafting rules)	DIS	e. <u>Potable water storage tanks.</u> 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.								
6b.	384.25 (10)	Revise	DIS	ALARM SYSTEM. All pump and alarm controls for POWTS shall be specifically designed by the manufacturer for such use.	None							
6c.	384.25 (11) (c)	Revise	DIS	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:	None							
7.	Tables 384.30-1 384.30-2	Allows option to eliminate need for petition.	DIS	Add to tables 384.30-1 & 384.30-2: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Material</th> <th>Standard</th> </tr> </thead> <tbody> <tr> <td><u>Stainless Steel</u></td> <td>ANSI B36.19M; ASTM A269; 312/A312M; ASTM A450; A778; AWWA C220</td> </tr> </tbody> </table>	Material	Standard	<u>Stainless Steel</u>	ANSI B36.19M; ASTM A269; 312/A312M; ASTM A450; A778; AWWA C220		5/30/2018 – Motion to adopt.		
Material	Standard											
<u>Stainless Steel</u>	ANSI B36.19M; ASTM A269; 312/A312M; ASTM A450; A778; AWWA C220											
7a.	Table 384.30-4	Add standard to table	DIS	<p style="text-align: center;">Table 384.30-4 PERFORATED EFFLUENT DISTRIBUTION PIPING FOR NONPRESSURIZED SOIL ABSORPTION SYSTEMS</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Material</th> <th>Standard</th> </tr> </thead> <tbody> <tr> <td>Polyethylene (PE)^a</td> <td>ASTM F405; ASTM F810</td> </tr> <tr> <td>Polyvinyl chloride (PVC)^a</td> <td>ASTM D2729; <u>ASTM D3034</u></td> </tr> </tbody> </table>	Material	Standard	Polyethylene (PE) ^a	ASTM F405; ASTM F810	Polyvinyl chloride (PVC) ^a	ASTM D2729; <u>ASTM D3034</u>		
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Polyvinyl chloride (PVC) ^a	ASTM D2729; <u>ASTM D3034</u>											
7b.	Table 384.30-5 Title	Revise Title of Table	DIS	<p style="text-align: center;">Table 384.30-5 PRESSURIZED <u>SEWER, DRAIN PIPE, AND TUBING, AND SERVICE SUCTION LINES</u></p>								
7c.	384.30 (3) (a)	Revise	DIS	(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.								

SPS 384 PLUMBING PRODUCTS						
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
7d.	384.30 (3) (e) 3.	Revise	DIS	Roof drains shall be sized in accordance with s. SPS 382.36 and the drain outlet shall <u>may</u> not be less than 2 1/2 <u>2</u> inches in diameter.		
7e.	384.30 (3) (d)	Repeal	DIS	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.		
7f.	Table 384.30-8	Repeal Table. Polybutylene no longer approved for water distribution.	DIS	Table 384.30-9 MINIMUM BENDING RADIUS OF POLYBUTYLENE WATER DISTRIBUTION PIPE AND TUBING		
7g.	384.30 (5) (c) 4.	Update code to reflect terminology in the adopted standard.	DIS	Pipe applied atmospheric <u>Atmospheric</u> 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 <u>an</u> 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, <u>or</u> C.		
7k.	384.30 (5) (c) <u>21.</u>	New language will require all "yard hydrants" to comply with ASSE 1057	DIS	(c) <u>21.</u> Yard hydrants shall conform to ASSE 1057.		

SPS 384 PLUMBING PRODUCTS						
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
8.	384.30 (6) (b)		DIS	384.30 (6) (b) <i>Traps and fixture drain connection fittings.</i> <u>1.</u> Copper or tubular brass traps and fixture drain connection fittings shall be at least of 20 <u>gage gauge</u> material. <u>2.</u> Plastic tubular traps, continuous wastes, and trap adapters shall comply with s. SPS 384.40 (1) (a).		5/30/2018 – Motion to adopt.
				Considerations for further discussion: Air Admittance Valves (See #18) Add “fixtures shall drain dry”? Determine where this provision should be placed in SPS 384. (See #19) Labeling anchors, etc.		

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	<p>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.</p> <p>What will happen if change not made: Potential code violations by plumbers unaware that this code exists.</p>	Should be a cost savings as this ch. will be in the plumbing code w/other plumbing related items.	9/19/2017 - 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	<p>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.</p> <p>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.</p> <p>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".</p> <p>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.</p>	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.	10/10/2017 - Motion to table.

COMMITTEE MEMBER ITEMS FOR CONSIDERATION

NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
3.	382.20	Plan Review	Gardner	<p>382.20(8) REVISIONS. All changes <u>Changes</u> or modifications involving 4 or more <u>fixtures</u>, which involve the provisions of chs. SPS 382 to 384, made to plumbing plans and specifications, which have been granted approval under sub. (1), shall be submitted to the department or agent municipality for examination. All changes and modifications shall be approved in writing by the department or agent municipality prior to installation of the plumbing.</p> <p>Proposed Change: Define what constitutes a change or modification requiring revised drawings. Loosen up the existing requirement to allow jobs to move forward in a more efficient and productive way without sacrificing code conforming installations.</p> <p>Description of problem: As it stands now the code says that ALL changes and modification involving provisions of SPS 382 to SPS 384 made to plumbing plans and specifications shall be submitted to the department or agent for examination. All changes and modifications shall be approved in writing PRIOR to installation.</p> <p>Extent of Problem: The problem with this is if we follow this as written, every single job would have the potential to have multiple revisions. There are a multitude of jobs such as remodeling jobs, strip malls etc. that would have never ending revisions due to existing unknown conditions, new tenants, etc. This would overwhelm the department or agent municipalities and slow down plan reviews and inspections. There are also discrepancies between inspectors on exactly what constitutes a change or a modification. Is it as focused as doing offsets around equipment in an attempt to coordinate with other trades? Is it a change if you use an approved equal fixture because the ones that were submitted were not readily available? Is it considered a change if you pipe a system to code more efficiently than the out of state engineer who back vented every single fixture just to get approvals in every state? Why can't an inspector and contractor allow changes without revised drawings when the installer and the inspector concur the revised installation meets code and doesn't cause any public risk? Another issue is when does an original job end and remodeling start? (remodeling, mall and strip mall scenario) Does that mean that every single store that comes into the mall would trigger revised drawings? What if there are 500 stores?</p>	None	

COMMITTEE MEMBER ITEMS FOR CONSIDERATION						
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				<p>What will happen if change not made: I am concerned that this is one of the areas in our code where the progress of a job can be negatively impacted by this procedure by causing the continuation of long lead review times while causing major schedule delays to everyone involved with the project. I believe this is an area where our plumbing code procedures could be questioned about having some flexibility in order to keep construction moving forward. What is the public risk if a licensed plumber makes a change within code requirements and has the change inspected and approved by the inspector?</p> <p>What costs, in terms of time and money, are associated with implementing this change? I feel this will have no extra costs to anyone involved whatsoever. It will allow construction to progress in a more efficient manner making contractors and owners less likely to complain or challenge our plumbing code. It will allow inspectors to spend more time out in the field inspecting installations and looking for code violators.</p>		

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	<p>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.</p> <p>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.</p> <p>Current:</p>	Less restrictive, provides additional options	<p>Must still meet system demand/volume.</p> <p>City of Madison seeing more stand-alone systems.</p> <p><i>8/9/17 - Motion to amend 382.40 (7) (e) as shown.</i></p>

NON-COMMITTEE ITEMS FOR CONSIDERATION						
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
				<p>(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). (*)</p> <p>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.</p> <p>*Text of Reference: 382.40 (3) (e) <i>Multipurpose piping system.</i> 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.</p>		
1a.	SPS 382.40(7)(e)	Consider allowing use of pex pipe	Fire Industry to DIS	<p>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))</p>		10/10/2017 - Tabled.
2.	SPS 382.30 (13) 2.	Provision lacks performance requirements.	Tom Burke, Victoria+Albert Baths, United Kingdom Letter submitted to DSPS	<p>Request is to change the standards to make a fair performance requirement for all products that feature an overflow.</p> <p>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.</p> <p>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</p>		10/10/2017 - Motion to reject recommendation as requester may apply for an alternate approval.

NON-COMMITTEE ITEMS FOR CONSIDERATION						
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
				<p>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.</p> <p>Discussion: Was not intended for “overfilling” rather “overflow”.</p>		
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	<p>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.</p> <p>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.</p> <p>3/20/18 Discussion:</p> <ul style="list-style-type: none"> • ICC is accredited by ANSI and issue certifications for plumbing mechanical, and gas products. (Certificate included 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 	None	<p><i>3/20/2018 - 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.</i></p> <p>DIS recommends providing ICC with details of process and application to apply to be listed as an approved listing agency.</p> <p>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.</p>

NON-COMMITTEE ITEMS FOR CONSIDERATION						
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
				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.)		

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.		