Wisconsin Department of Safety and Professional Services Division of Policy Development 1400 East Washington Avenue PO Box 8366 Madison WI 53708-8366



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Scott Walker, Governor Laura Gutiérrez, Secretary

PLUMBING CODE ADVISORY COMMITTEE MEETING

Room 121C, 1400 East Washington Avenue, Madison Contact: Mindy Allen (608) 266-2112 March 20, 2018

9:00 A.M.

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

AGENDA

OPEN SESSION - CALL TO ORDER - ROLL CALL

- A. Adoption of Agenda (1-2)
- B. Approval of Minutes for October 10, 2017 (3-4)
- **C.** Administrative Matters
- D. Legislative and Administrative Rule Matters Discussion and Consideration (5-33)
 - 1. Discussion of Department and Advisory Committee Proposed Code Changes Relating to the Plumbing Code, Chapters SPS 381 to 387
 - a. SPS 381 Definitions and Standards
 - b. SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing and SPS 382 Appendix
 - c. SPS 383 Private Onsite Wastewater Treatment Systems and SPS 383 Appendix
 - d. SPS 384 Plumbing Products and SPS 384 Appendix
 - e. SPS 385 Soil and Site Evaluations
 - f. SPS 386 Boat and On-Shore Sewage Facilities
 - g. SPS 387 Private Onsite Wastewater Treatment System Replacement or Rehabilitation Financial Assistance Program
- **E. Public Comments**

F.	Adi	ournment	
1.	Au	vui iiiiiciii	

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 1400 East Washington Avenue, Madison, Wisconsin, unless otherwise noted. In order to confirm a meeting or to request a complete copy of the board'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.

SPS 380-387 PLUMBING CODE ADVISORY COMMITTEE MEETING MINUTES

October 10, 2017

PRESENT: Fred Gardner, Roger Musolff, Marc Rhiner, Robert Schmidt, Jason Sladky, Joseph Zoulek

EXCUSED: Scott Chiples

STAFF: Melinda Allen, Administrative Rules Coordinator; Tom Braun, Section Chief; Ryan Boebel,

Plumbing Consultant; Laura Smith, Bureau Assistant; and other Department staff

Roger Musolff, Committee Chair, called the meeting to order at 9:00 a.m. A majority of six (6) members was present.

ADOPTION OF AGENDA

MOTION: Robert Schmidt moved, seconded by Jason Sladky, to adopt the agenda as published.

Motion carried unanimously.

APPROVAL OF MINUTES

MOTION: Joseph Zoulek moved, seconded by Fred Gardner, to approve the minutes of September

19, 2017 as amended. Motion carried unanimously.

LEGISLATIVE AND ADMINISTRATIVE RULE MATTERS

<u>Discussion of Department and Advisory Committee Proposed Code Changes Relating to the Plumbing Code</u>, SPS 381-387

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

MOTION: Jason Sladky moved, seconded by Joseph Zoulek, to remove the specific requirements for

disinfection as reflected in the amended spreadsheet. Motion carried unanimously.

(Refers to #51 in the spreadsheet.)

MOTION: Robert Schmidt moved, seconded by Jason Sladky, to create a 382.50(3)(b)4.b. as

recorded in the amended spreadsheet. Motion carried unanimously. (Refers to #54 in the

spreadsheet.)

MOTION: Fred Gardner moved, seconded by Jason Sladky, to adopt #55 as written. Motion carried

unanimously. (Refers to #55 in the spreadsheet.)

MOTION: Jason Sladky moved, seconded by Fred Gardner, to remove the stricken-through

language from 382.50(3)(b)6. As recorded in the amended spreadsheet and to add the disinfectant guidance documents from the department's current website to the appendix for SPS 382 to support 'another disinfectant system'. Motion carried unanimously.

(Refers to #56 in the spreadsheet.)

MOTION: Joseph Zoulek moved, seconded by Robert Schmidt, to amend SPS 382.50(3)(b)8. and

SPS 382.50(3)(b)7. as recorded in spreadsheet. Motion carried unanimously. (Refers to

#57 and #57a in the spreadsheet.)

MOTION: Fred Gardner moved, seconded by Robert Schmidt, to adopt the amended language for

382.41(5)(d)1. Motion carried unanimously. (Refers to #58 in the spreadsheet.)

MOTION: Roger Musolff moved, seconded by Jason Sladky, to correct 382.7—1 by striking

'infiltration and' as recorded in the amended spreadsheet. Motion carried unanimously.

(Refers to #59 in the spreadsheet.)

MOTION: Robert Schmidt moved, seconded by Fred Gardner, to table discussion on item #2 on

page 19 of the spreadsheet. Motion carried unanimously. (Refers to #2 on page 19 in the

spreadsheet, regarding SPS 382.22(8).)

MOTION: Roger Musolff moved, seconded by Robert Schmidt, to reject the recommendation in #2

on page 20 of the spreadsheet regarding bathtub overflows. Motion carried unanimously.

(Refers to #2 on page 20 in the spreadsheet.)

MOTION: Jason Sladky moved, seconded by Robert Schmidt, to create 382.20(1)(bm) and to amend

(a) and (b) as recorded on page 22 of the spreadsheet. Motion carried unanimously.

ADJOURNMENT

MOTION: Roger Musolff moved, seconded by Robert Schmidt, to adjourn the meeting. Motion

carried unanimously.

The meeting adjourned at 1:56 p.m.

State of Wisconsin Department of Safety & Professional Services

AGENDA REQUEST FORM

1) Name and Title of Person	Submitting the Request:	2) Date When Requ							
Mindy Allen, Administ	Mindy Allen, Administrative Rule Coordinator March 09, 2018 Items will be considered late if submitted after 12:00 p.m. on the deadline date which is 8 business days before the meeting								
3) Name of Board, Committee Plumbing Code Adviso			·						
4) Meeting Date: March 20, 2018	Yes □ No □ No □ P	Piscussion and Consi 1. Discussion of De roposed Code Change Phapters SPS 381 to 33	Iministrative Rule Matters - deration epartment and Advisory Committee es Relating to the Plumbing Code, 87						
7) Place Item in: Open Session Closed Session	scheduled?	before the Board being	9) Name of Case Advisor(s), if required:						
		ard Appearance Request)							
10) Describe the issue and a	No No No Ction that should be addre	ssed:							
Department invites the proposed issues, as wel	Plumbing Code Advi l as additional recom	sory Committee to pr mendations for Depar	sions to the Plumbing Code. The rovide recommendations on the rement consideration.						
11)		horization	Dete						
Signature of person making	inis request		Date						
Melinda R. Allen			03/09/2018						
Supervisor (if required)			Date						
Executive Director signature	(indicates approval to add	l post agenda deadline iten	n to agenda) Date						
	hed to any documents sub ms must be authorized by	a Supervisor and the Polic	y Development Executive Director. e to the Bureau Assistant prior to the start of a						

Wisconsin Department of Safety and Professional Services Plumbing Code Advisory Committee Administrative Rule Recommendations SPS Chapters 305, 381-387

Green=completed, Yellow=Needs additional discussion/information,
Red=Committee recommendations/actions, Green=Department notes/actions

	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.	Dept.	Statutes: 145.07(6) Applicants for examination for licensure as a journeyman plumber (restricted) shall have completed one continuous year of work experience consisting of not less than 1,000 hours per year and give evidence of completion of shop training and related instruction as the department by rule requires. Administrative Rule: SPS 305.94(3) QUALIFICATIONS FOR EXAMINATION. A person applying for a journeyman plumber-restricted service license examination shall have met all of the following: (a) At least Completed one continuous year of plumbing-related work experience consisting of not less than 1,000 hours per year of plumbing related work experience as a registered learner-restricted service.		Amend to align administrative rule w/statute.				

				SPS 381 DEFINITIONS AND STANDARDS		
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
1	381.01 (129m)	Need for enforcement	DIS, Amended by PAC	Create definition: "Imminent health hazard" means a significant threat or danger to health that is considered to exist when there is evidence sufficient to show that a product, practice, circumstance, or event creates a situation that requires immediate correction or cessation of operation to prevent injury or illness based on: (1) The number of potential injuries or illnesses; and (2) The nature, severity, and duration of the anticipated injury or illness.	n/a	5/4 – Motion to adopt w/amendments.
1a.	381.01 (195m)	Creates a definition as included in ch. 305.003 (60)	DIS	SPS 381.01 (195m) is created to read: (195m) "Process piping" means that piping which is separated from a water supply system or drain system by the appropriate 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.		

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				SPS 381 DEFINITIONS AND STANDARDS		
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	Existing Language and Proposed change	POTENTIAL IMPACT/COST	COMMENTS/STATUS
2	381.20	Outdated standards	DIS	Update standards: Tables 381.20-1 to 381.20-13 [5/4 & 6/14 Action Item: Tom to identify standards. Mindy to send links of standards to committee for review.] Tables have been updated to most current standard.		5/4 - Committee to complete review of standards. 10/10: Action Item: Plan to review at December meeting. Set up link to Dropbox to share standards.
3	381.20-4 Change to 382.41 – 1	Mitigate problems for contractors & occupants.	Stake- holder	Proposal to adopt A.S.S.E. 1081-2014 for the purpose of supplying water to a boiler system while preventing low hazard backpressure and low hazard backsiphonage to the potable water system. Would allow for a single device to serve as both a fill valve and a cartridge style, dual check backflow preventer.	Minimal	5/4 – Motion to table. Currently no language in code that allows inspector to accept these devices. 6/14 – 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).

		SP	S 382 DESIGN	, CONSTRUCTION, INSTALLATION, SUPERVISION, MAINTENANCE, AND INSPECTION OF PLU	MBING	
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	Existing Language and Proposed change	POTENTIAL IMPACT/COST	COMMENTS/STATUS
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4	382.10 (2)	Changes with	DIS	382.10(2)(b) To fulfill the basic needs of sanitation and personal hygiene, each		5/4 – Motion to adopt
	(b)	introduction of		dwelling with the exception of camping cabins units, connected to a POWTS or		w/amendments.
		SPS 327		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		5/4 – Motion to create
				a system or device recognized under ch. SPS 391 may be substituted for the water		note to reflect
				closet. All other structures for human occupancy shall be equipped with sanitary		definition of "camping
				facilities in sufficient numbers as specified in chs. SPS 361 to 366.		unit" in SPS 327.
				acilities in sufficient numbers as specified in clis. 3F3 301 to 300.		unit 111 3F3 327.
			PAC	Rule-making project for camping units already includes note for the definition of		
				camping units. See 381.01 (50g). [SPS rules relating to camping units & UDC.]		
5	382.20 (1)	The changes in	DIS	SPS 382.20(1)(a) Department review. Plumbing plans and specifications for the		5/4 – Motion to adopt.
	(a)	public health		types of plumbing installations, except direct replacements, listed in Table		One opposed.
		care related to		382.20–1 shall be submitted to the department for review, regardless of where		

		SP	S 382 DESIGN	, Construction, Installation, Supervision, Maintenance, and Inspection of Plu	MBING	
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	Existing Language and Proposed change	POTENTIAL IMPACT/COST	COMMENTS/STATUS
		CBRF's and inpatient hospice find that the review of the plumbing components have become complex and are treated similar to hospitals and nursing homes.		the installation is to be located. A municipality shall be designated as an agent municipality in accordance with sub. (2). Written approval for the plumbing plans shall be obtained prior to installation of the plumbing. (Table 382.20-1) 1. All plumbing, new installations, additions and alterations, regardless of the number of plumbing fixtures involved, serving hospitals, nursing homes and ambulatory surgery centers. Proposed: 1. All plumbing, new installations, additions and alterations, regardless of the number of plumbing fixtures involved, serving hospitals, nursing homes, ambulatory surgery centers, community—based residential facilities (CBRF), and inpatient hospice. 5/4 Discussion: Includes all CBRFs — no distinction between small and large. Applicability same as hospitals. If replacing fixtures, needs to be the same as original.		[Definition of municipality includes counties.]
				[Action Item: Dept. to develop language to incorporate new pre-approval process.]		
5a.	382.20 (1) (a) (b) and create (bm)	Permission to start	DIS	Amend (a) and (b) and create (bm). (a) Add: except as provided in (bm) (b) Add: except as provided in (bm) (bm)		10/10: Motion to amend (a) and (b) and create (bm).
5b.	Table 382.20-1		DIS	All plumbing, new installations, additions, and alterations, regardless of the number of plumbing fixtures involved, serving hospitals, nursing homes and ambulatory surgery centers, CBRF, hospice, and dialysis. a,c		
6	382.20 (4) (b)2.	Water Quality Managements letters delays plan review. DNR issue and should be regulated by local municipality.	DIS	Repeal 382.20(4)(b)2, 3 & 4: Plans proposing the installation, creation or extension of a sanitary private interceptor main sewer which is to discharge to a municipal treatment facility shall: a. Be accompanied by a letter from the appropriate designated planning or management agency indicating conformance with an approved area wide water quality management plan under ch. NR 121; 5/4 Discussion: This is a local issue. Waiting for letter is holding up plans and permits.	Eliminates the need to expend resources	5/4 – Motion to adopt.

		SP	S 382 DESIGN	, CONSTRUCTION, INSTALLATION, SU	PERVISION, MAINTENA	NCE, AND INSPECTION OF	PLUMBING	
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	Existing Land	GUAGE 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	(b) Local inspection. Inspections. Naving a local inspector, the testinof a plumbing inspector, except a	ng of the plumbing sha	Ill be done in the present		5/4 – Motion to adopt. w/amendments.
7a.	382.22 (7)		DIS	(7) DEAD ENDS. If a dead end is cr system, all openings in the drain s removable traps shall be disconne	system shall be proper	ly sealed. <u>Abandoned no</u>	<u>n-</u>	
8	382.30 (4) (b)	Changes with introduction of SPS 327	DIS	Minimum size of building sewers. gravity flow sanitary building sew serving camping cabins units. Add: Venting shall be according to Rule-making project for camping units. See 381.01 (50g). 5/4 Discussion: Should this be exp Walgreens)? Would need addition "seasonal".)	er shall be 4 inches in 382.41 based on DFL units includes note for panded to include other	J load. the definition of campiner facilities (i.e.		5/4 – Motion to adopt w/amendment. 6/14 - Motion to craft language relating to venting for camping units in 382.31 (4).
8a.	382.30-1 Table		DIS	Table 382.30–1 Drainage Fixtu Type of Fixture Bathroom Group, includes: water closet, lavatory, bathtub, or shower Shower Stall: Residential Public, individual Public, group See exception: Water Closet, nonpublic	re Unit Values by Fix Drainage-Fixture Unit Value (DFU) 6-5 2 2 2 per shower head 4-3	Trap Size Minimum Diameter (inches) 2 2 2		
9	382.30 (10) 382.34 (f)?	Exterior ejector pits	POWTS Advisory Comm.	More specification about exterior department want to make jurisdiction issue. Clarification of what should - Anchoring 83, Locks 84, Seth Clarification: Who inspects? Compepends on size of jurisdiction are has authority to appoint. Ch. 384	ejector pits may be no ctional lines-right now l be looked at for eject acks 83 nection at tank to inlet nd who appoints. Inter	? This would be a plumbi or pits. : of septic tank = POWTS. :ior=UDC. Per stat, local		5/4 - Tabled. Need additional information.

NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	Existing Language and Proposed change	POTENTIAL IMPACT/COST	COMMENTS/STATUS
9a.	382.30 (11) (b) 3. <u>c.</u>	TONCHANGE	DIS	3. 'Floor drain required.' a. Where a plumbing fixture or appliance is located on a floor which is entirely below grade, a floor drain shall be installed to serve that floor. b. In any room containing the recessed or concealed portions of sterilizers located in health care or related facilities, at least one floor drain connecting to the drainage system shall be installed in a manner to adequately drain the entire floor area. c. Toilet and locker rooms associated with public swimming pools so arranged as to prevent any standing water.	INITACI) COST	
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 - 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') Discussion: If heat source, insulated pipe works well. If no heat source, no movement of air through tank. (Grease source, septic, etc.) [5/04 - Action Item: Tom to get insulation factors and recommendations for insulation pipe.]	Medium	5/4 - Tabled. 8/9 – Tabled pending new language. [Tom]
11	382.30 (11)(c)2.e.	allows for seasonal homes	DIS, Amended by PAC	Where a building sewer or private interceptor main sewer is installed to serve summer seasonal use public facilities, frost protection requirements shall not apply. Discussion: Consider changing "summer" to "seasonal" for consistency w/other rules. Consider creation of note to reference definition of "seasonal". Per SPS 364.0309 (2), "Seasonal" is defined as the period of May 1 through October 15.		5/4 - Motion to table. 6/14 - Motion to create a definition of seasonal in SPS 381 as defined under 364.0309 (2). 8/9 - Motion to create definition for "seasonal" to mean the period of April 15 through October 31 for the purpose of frost protection.
12	382.30 (12)(f)	Non-easement issues	DIS	Existing: No private interceptor main sewer may pass through or under a building to serve another building, unless one of the following conditions are met: Proposed: 3. An easement and agreement for maintenance and repairs shall be recorded with the register of deeds no later than 90 days after installation.		5/4 – Motion to table pending new language.

NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	Existing Language and Proposed change	POTENTIAL IMPACT/COST	COMMENTS/STATUS
				Discussion: Issues w/neighbor disputes re: who is maintaining easement. Proposal provides directive to alleviate issues.		
	382.30 (11) (a)		PAC	Consider additional amendments to this section. Consider adding new language after 'main sewer''or building sewer that connects to a private interceptor' OR change 382.30(11) (a). Includes water, storm, and sanitary sewers.		
				[Action Item: Tom to develop amended language. Research PSC or other rule language for language to address issue.]		
13	382.30 (13)(c)	Clarification	DIS Amended by PAC	Exposed drain piping shall not be located over a pool, surge tank, or an open filter for a pool. Proposed: Add Note: Note: Piping with insulation is not exposed. SPS 382.30(13) (c) (Note) is created to read:	Less restrictive	5/4 – Motion to adopt w/amended note.
	382.30 (13) (b)			Note: See ch. 382 Appendix for examples of exposed piping considerations. 5/04 - Discussion: Intent is to prevent installation of ceilings to cover piping. Consider additional amendments to this section and other sections relating to exposed pipes over consumables. Consider including examples of porous insulation (indicating a leak) in the Appendix (i.e. fiberglass w/paper sleeve or other porous insulation) 6/14 - This may fall under health department. They may allow a trough.		
13a.	382.31 (11) (a)		DIS	(a) Vertical drains. A common vent may serve a maximum of 2 fixtures where both fixture drains connect to a vertical drain at the same elevation. 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. 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.		
14	382.31 (12)	Clarification	DIS	RETURN VENTS. Plumbing Wall outlet plumbing fixtures may be vented in accordance with pars. (a) to (d).		5/14 – Left off here. 6/14 – Motion to adopt w/amendment.
15	382.31 (16)(d)1.	Existing language too restrictive	DIS Amended by PAC	Location of vent terminals. 1. A vent shall not terminate at least 5 feet under the overhang of a building. Create: 2. e. if a vent terminates under an overhang, it shall be a minimum of 5 feet below the overhang.		6/14 - Motion to strike 383.31(16) (d) 1. 6/14 -Motion to create 382.31 (16) 2. e.

		SP	S 382 DESIGN	, CONSTRUCTION, INSTALLATION, SUPERVISION, MAINTENANCE, AND INSPECTION OF PLU	MBING	
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	Existing Language and Proposed change	POTENTIAL IMPACT/COST	COMMENTS/STATUS
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 - 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		No action required.
18	382.31 (18)	Codifying AAV alternate approval Doesn't have to go through plan review if in code.	DIS, Amended by PAC	Create new section: (18m) AIR ADMITTANCE VALVES (AAV). The use of air admittance valves in lieu of traditional venting shall comply with all of the following: (a) The AAV may only serve as a termination point for a branch vent, circuit vent, common vent, individual vent, wet vent or- combination drain and vent system. The AAV may serve a pumped-discharge type clothes washer standpipe when the fixture drain downstream of the point of vent is at least 3 inches in diameter. (b) The AAV may not serve as a vent termination point for any of the following: to relief positive pressures, serving chemical waste system, serving POWTS holding tank or POWTS treatment tank, serving a stack vent serving two or more branch intervals, serving a vent stack that is required in accordance with s. SPS 382.31 (4) (a), serving a sump, serving Bio Safety Lab (BSL) 3 or 4 laboratories. (c) The size and developed length for a vent using an AAV shall conform with Table 382.31-6. TABLE 382.31-6. TABLE 382.31-6 Maximum Maximum Developed Distance of Vent to Connection of AAV in Feet Diameter in Inches 1-1/4* 1-1/2* 2 1 35 NL NL 3 28 140 NL 6 NP* 100 200 20 NP 60 110 (d) Testing. AAV's shall be tested. The AAV shall be tested prior to or after installation. The AAV shall be subjected to a pressure equal to 1 inch of water column. After observing for 1 minute, if the pressure falls .5 of an inch or less, it will be considered a passing AAV. (e) Installation. The installation of the AAV shall conform with all of the following:		6/14 – Motion to adopt w/amendments. 8/9 - Tabled: No ASSE number available at this time. Action Item: Send standard once available. To be addressed in ch. 384.

		SP	S 382 DESIGN	, CONSTRUCTION, INSTALLATION, SUPERVISION, MAINTENANCE, AND INSPECTION OF PLU	MBING	
NO.	RULE	ISSUE/REASON	PROPOSED	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL	COMMENTS/STATUS
	PROVISION	FOR CHANGE	BY	EXISTING EARGOAGE AND I NOT OSED CHANGE	IMPACT/COST	COMMENTAJOTATOS
				 The AAV must be installed in the vertical position (plus or minus 15 degrees from plumb). 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. The installation location of the AAV shall conform with all of the following: A minimum of 4 inches above the top of the horizontal pipe being served. No more than 20 inches below the flood rim of any fixture served. At least 6 inches above insulation materials. In an accessible area. Within a ventilated space that allows air to enter the product and has an opening equivalent to requirements in 382.31 (14) with an area of at least one square inch to the building air or outside air atmosphere. With at least one open air vent located connected to the building drain waste and vent system and located downstream of all any air admittance valves AAV extending to outside atmosphere in all systems that include air admittance valves AAV installation. and with With a 3 inch or larger vent installed to the outside atmosphere connected to the building drain waste and vent system outside atmosphere in all any systems that include air admittance valves AAV installations. 		Q. Need drawing in appendix? A. No
				 4. The AAV may not be located in any of the following areas: a. An enclosed stairwell. b. An area subject to positive pressure conditions for more than 12 continuous hours. c. An area utilized as supply or return air plenum. d. A pit, vault, or depression which is below the adjacent grade or floor level. e. An area that subjects the valve to conditions with grease or other materials which could cause fouling of the valve's seal. 5. The AAV may not be located within the same room or enclosure as any of the following: a. A Bio Safety Lab (BSL) 3 and 4 laboratory. b. A health care facility as defined is s. SPS 381.01 (116). c. A restaurant kitchen licensed by the state or local department of health. 		[Resolved] (f) POWTS consideration. Cabin consideration Define "open air vent". Further discussion needed on "downstream". Goal is to eliminate positive pressure. Insert "branch" after vent? Eliminate 3. f.?

		SP	S 382 Design	, CONSTRUCTION, INSTALLATION, SUPERVISION, MAINTENANCE, AND INSPECTION OF PLU	MBING	
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
				 d. A residential bedroom. e. A daycare. 6. Branches that have fixtures served by the AAV must comply with all of the following: a. When connected to a stack that has 4 or more branch intervals above the branch connection, the branch must be provided with a relief vent located between most downstream fixture and the stack. b. The branch may not connect to any horizontal drain within 20 pipe diameters downstream of the base of a two-inch or larger drain stack. (f) Notice to Owner: When an AAV is installed in a building, the contractor shall provide the owner with a copy of the manufacturer's written AAV description. 		
19	382.32 (3) (e)		DIS, amended by PAC	 Size. Traps shall be of diameters not less than those specified in Table 382.30–1 of s. SPS 382.30. a. 1. The minimum trap diameter for a trap serving a shower replacing a residential bathtub is 1.5 inches providing the following apply: a. The shower is served by one control valve and one shower head. b. The shower head shall have a maximum flow rate of 2.5 gallons per minute (gpm). Discussion: Consider adding "fixtures shall drain dry"? Determine where this provision should be placed in SPS 384. Make change in 382.32 (f). 'Except as provided in' 		6/14 – Motion to adopt w/amendments. 8/9 – Motion to place note under Table 382.30-1 to read: 'See SPS 382.32 (3) (e) for exceptions.'
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 – Motion to adopt.
21	382.32 (5) (b)	Issues with dishwashers, clothes washers and disposals	DIS	Existing: Kitchen sinks. Horizontal drain piping serving a kitchen sink trap shall not connect to vertical drain piping by means of a double sanitary tee. Proposed: 1. Horizontal drain piping serving appliances with pumping action discharge shall not connect to vertical drain piping by means of a double sanitary tee.		6/14 – Motion to adopt.
21.a	382.32 (5)(c)2.	Enforcement Issue	Musolff	SPS 382.32 (5)(c)2. A floor outlet water closet shall connect to a 4 inch or 4 X 3 inch closet collar fitting. A 4 X3 inch closet bend fitting may be installed where a 4 inch closet collar fitting is used.		
22	382.33	Need to expand table?	DIS, amended by PAC	Table 382.33-1 – some states allow indirect waste piping. Discussion: kitchen sink – suds. (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		8/9: Motion to add "Other devices, fixtures, and appliances as

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				listed in Table 382.33-1, shall be considered as plumbing and shall comply with the provisions of this section. Table 382.33-1 Refrigerated food storage rooms and compartments Refrigerated food display cases Ice compartments and ice makers Vending machines Steam tables, kettles, and related equipment Food preparation sinks Potato peelers Egg boilers Boiler blowoff basin outlet drains Coffee makers and urns Food processing equipment Baptismal founts Clothes washers and extractors Dishwashers Stills Sterilizers Bar and soda fountains Boiler blowoff basin outlet drains Other devices, fixtures, and appliances as approved by the department 6/14 Discussion: Allow indirect piping? Allow use of floor sinks? If allowed, would also affect 382.33 (2). No. 8/9: Discussion: Is "as approved by department" too vague/open-ended? Will enforcement vary? [Note to Dept.: Need clarification.]		approved by the department." 8/9: Motion to add ice-makers and "and related equipment".
22a	382.33 (5) (b) Note	Repeal note due to repeal of re: section in SPS 325.	PAC	SPS 382.33 (5) (b) and (note): (b) Local waste piping. Local waste piping handling sanitary wastes and more than 30" in length shall be provided with a trap in accordance with s. SPS 382.32 (4). Note: Residential exclusion see. S. SPS 325.		9/19 – Motion to keep SPS 382.35 (5) (b) and repeal note.
23	382.33 (8) (d)	Industry standard Adds allowance	DIS	 Other receptors. A plumbing fixture may not be used as a receptor for indirect or local waste piping, except as provided in subds. 1. to ₹ 8. 8. A water closet, clinical sink, or a urinal may receive the discharge from a mortuary or autopsy table. Consider adding 9. Tom to check into dialysis provision. 		6/14 - Motion to adopt 8. 8/9 – Motion to request Department to draft language for SPS 382.50 relating to dialysis boxes.

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				 8/9 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. [Action Item: Dept. to draft language for 382.50.] 		
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 Discussion re: ice makers		6/14 - Motion to adopt.
25	382.33 (8) (d)7.	Use of term "riser" is confusing	DIS, Amended by PAC	The indirect waste piping serving a dental mold grinder may discharge into the riser or tailpiece of a trap serving a laboratory sink that is provided with a plaster trap and is installed within 3 feet of the mold grinder.		6/14 – Motion to adopt.
26	382.33 (9) (a)	Specific discharge language	DIS	Existing: Addition to. Proposed: Indirect waste must discharge to an approved receptor.		6/14 – Motion to adopt.
27	382.33 (9) (c)2.	Clarification – This is not limited to self- service laundries.	DIS	'Self-service laundries Laundries.' Pumped-discharge automatic clothes washing equipment, including residential-type clothes washers in launderettes, laundromats, and self-service laundry establishments shall have the wastes discharge to a drain system by means of standpipes. The standpipes shall be installed in accordance with subd. 1. [Note to DPD.: Amend - C. Commercial commercial]	Less restrictive	6/14 – Motion to adopt.
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.		
28	382.33 (9) (g) Note	Amend term from 'material'	DIS	Note: See ch. SPS 382 Appendix for further explanatory material information. Discussion: "Material" typically references plumbing material.		6/4: Tabled 8/9 - Motion to amend notes throughout code to replace 'material' with 'information'.

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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 - Motion to adopt.
30	382.34 (15) (e) 1.	Original is confusing	DIS	A discharge line serving shall serve a containment tank for servicing purposes and shall comply with all of the following: Discussion: Hospital decon tents not required to put in tank but if they do, have to follow standards.		6/14 - Motion to adopt.
31	382.34 (15)(d) 1.	Hospitals need to account for all water.	DIS	Create: Where a containment tank has an outlet that is connected to a drain system, the outlet shall include a means to contain the wastewater from entering the drain system until proven to be safe for discharge.	Allows an additional option	6/14 - Motion to adopt.
32	382.34 (3) (e)	Specific maintenance for grease interceptors is needed.	DIS, amended by PAC	Maintenance. All devices installed for the purpose of intercepting, separating, collecting, holding or treating harmful, hazardous or deleterious materials in liquid or liquid–borne wastes shall be operated and cleaned of intercepted or collected materials or of any residual from treatment at such intervals which may be required to prevent their passage through the interceptor. <u>Exterior grease Grease interceptors shall be maintained on a cycle not to exceed 90 days or per manufacturer's instructions.</u>	More restrictive	6/14 - Motion to adopt.
33	382.34 (4) (b)	Basket req. to be removable for cleaning of fixture. Incl. in SPS 325 .01.	DIS	Garages for one- and 2-family dwellings. 1. Floor drains serving garages for one-and 2-family dwellings shall be provided with a removable solid bottom sediment basket.	Less restrictive	6/14 - 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. (c) Grates for garage catch basins, floor drains and trenches. A garage catch basin, floor drain and trench drain shall be provided with an approved, removable cast iron or steel grate of a thickness and 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. 		

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34	382.34 (4) (c)	Renumbering and adding subd.2. & 3. to mirror recent changes to SPS 325.01(4). UDC uses same language.	DIS, amended by PAC	382.34(4)(c) 1. Grates for garage catch basins, floor drains and trenches. A garage catch basin, floor drain and trench drain shall be provided with an approved, removable cast iron or steel grate of a thickness and sufficient strength for the anticipated loads. The grate shall have an available inlet area equal to at least the outlet drain for the catch basin, floor drain or trench drain. 382.34(4)(c) 2. The grate for a garage-floor drain sufficient thickness and strength that will withstand the anticipated loads. 382.34(4)(c) 3. 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).		6/14 - Motion to adopt SPS 382.34 (c)1. to 3. 9/19 - 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 - Motion to adopt.
36	382.34 (5) (c)	Clarification. Other non- grease producing fixtures tend to interfere with proper grease interception.	DIS	Exterior grease interceptors. Exterior New exterior grease interceptors interceptor installations shall receive the entire greasy waste discharge from kitchens or food processing areas. All exterior interceptors shall be designed and constructed in accordance with this paragraph, so as to constitute an individual structure. 6/14 Discussion: Consider definition for "greasy waste"?		6/14 - Motion to adopt. 6/14 - 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)].
37	382.34 (5) (c)1.g.	Compartments on exterior grease interceptors prevent channeling of waste.	DIS	An exterior grease interceptor shall have at least two compartments. Each compartment of an interceptor tank shall be provided with at least one manhole opening located over either the inlet or outlet opening. Additional manhole openings shall be provided such that no interior compartment wall of a tank is more than 4 feet from the edge of the manhole opening. The distance between manhole openings serving the same compartment shall not exceed 8 feet. Manhole openings shall be not less than 23" inches in the least dimension. Manholes shall terminate at or above ground surface and be of approved materials.		6/14 - Motion to adopt.

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37a.	382.34 (15) (a) 2.		DIS	Exterior containment Containment devices or treatment systems for mixed wastewater, decontamination tanks or other special wastewater treatment devices shall be constructed in accordance with s. SPS 384.25 or as approved by the department.		
37b.	382.34 (15) (e)		DIS	(e) Pump requirements. 1. A <u>pump or</u> discharge line <u>serving shall serve</u> a containment tank for servicing purposes <u>and shall comply</u> with all of the following:		
37c.	382.35 (3) (e) 2.		DIS	2. A cleanout in a drain stack may serve as the cleanout at the junction of the building drain and building sewer, if the stack is within 5 10 feet of where the building drain and building sewer connect.	•	
38	382.35 (3) (f)	With the advent of plastic pipe, the rule is outdated.	DIS	Stacks. Where a cleanout is provided in a drain stack, the cleanout shall be located 28 to 60 inches above the lowest floor penetrated by the stack. (Rule was written when cast iron was the prevalent material used in stacks and prevented fixture connections into the cleanouts.)		6/14 - Motion to adopt.
38a.	382.35 (6) Table 382.35		DIS	(6) CLEANOUT SIZE. Cleanouts and cleanout extensions shall be sized in accordance with Table 382.35. Diameter of Pipe Served by Cleanout (inches) Solution 1		
38b.	382.36 (6)	Create note	DIS	SPS 382.36 (6) (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.		
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.		
38d.	382.36 (7) (d) 1.		DIS	1. The connection of a stormwater leader discharging to a storm building sewer shall be made at or above the finished grade. If flush, a removable strainer must protect inlet. The capacity of strainer shall be provided in accordance with s. 382.36 (9) (b).		
38e.	382.36 (8) (a)	Create 3. under par (b) ?	DIS	(b)3.Clearwater wastewater shall not discharge into a stormwater sump, exception single family dwelling.		
38f.	382.36 (8) (a) 4. c.	Repeal. High pump rates are required in elevator code.	DIS	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.		

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38g.	382.36 (12) (a) 4.		DIS	4. A foundation subsoil drain that discharges by gravity to a storm sewer shall be trapped. A storm building drain serving a stormwater sump shall be trapped. The trap shall be provided with cleanouts.		
38h.	382.36 (12) (b) 2. a.		DIS	2. a. Vents serving a solid covered sump shall terminate a minimum of one inch above finished floor 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.		
39	382.365 (3)(a)	Confusing language. Infiltration is separate from reuse.	DIS	INFILTRATION SYSTEM DESIGN. (a) <i>Influent quality</i> . For stormwater and clearwater infiltration plumbing systems, the influent quality shall comply with the requirements in Table 382.70–1 for subsurface infiltration and irrigation. 6/4 Discussion: Infiltration is another section of rule.		6/14 - Motion to adopt.
40	382.365 (3)(b) 3.	New Alternate standard. DNR sets standards for discharge. Reflects technology changes in NR 151.	DIS	 3. The installation of a stormwater infiltration system where engineered soil is incorporated in lieu of in situ soil shall comply with the following stipulation: a. The engineered soil composition shall be engineered to meet the specifications listed in the Wisconsin Conservation Practice Standard 1004 (Bioretention for Infiltration). b. The engineered filtering layer shall be located above any limiting factor identified within the soil report. c. The engineered soil shall not be less than 24 inches in depth, or 18 inches with DNR supporting documentation. 	Allows flexibility. Less restrictive.	6/14 - Motion to adopt.
41	382.365 (3)(b) 1.	Incorporating Wisconsin Conservation Practice Standard 1002 Repeals tables 382.365-1 to 3 and adopts 1002 and 1004 as referenced standards.	DIS	Except as provided in subd. 2., the minimum depth of suitable in situ soil for infiltration systems shall be as specified in Table 382.365–1-5 feet of suitable soil separation where the soils 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 soils contains greater or equal to 20 percent fines exist to separate the system from the highest groundwater elevation or bedrock. When groundwater mounding calculations affect the depth to seasonal groundwater, the depth of suitable soil shall be measured to the calculated elevation of mounded groundwater. 1002 standard is now requiring pits and is equivalent to SPS 385 soil testing. 8/9: Standard 1002 - Site Evaluation for Storm Water Infiltration is still in draft form pending public comments. 8/9: Standard 1004 - Biotention for Infiltration is located on the DNR website (click on links to view.) [Note to DPD:: Send link to Standard 1002 when final version is available.]		6/14: Motion to Table 41-45 until next meeting. 8/9: Motion to table 41-45 until final copy of standard 1002 is available.
41a.	382.365 (3) (b) 2.	Create subd.3.	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		

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				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 approval.		
42	382.365 (4)	Codifying current practice	DIS	INSTALLATION. (a) Bioretention systems shall comply with Wisconsin Conservation Practice Standard 1004 & ? Renumbered to (b): Orientation. Except for subsurface irrigation systems, all of the following shall apply: Discussion: Wisconsin Conservation Practice Standard 1004 contains best		Table until final copy of standard 1002 is available.
				practices specific construction requirements.		
43	382.365 (c)1.	Incorp. WI Conservation Practice Standards	DIS	The maximum hydraulic application rate shall be determined by soil analysis in accordance with sub. (2) (b) and Table 382.365–2 Wisconsin Conservation Practice Standard 1002.		Table until final copy of standard 1002 is available.
44	382.365 (c)2.	Incorp. WI Conservation Practice Standards	DIS	The maximum hydraulic application rate shall be determined by field measurement using a nationally–accepted method and the correction factor as determined using Wisconsin Conservation Practice Standard 1002. Table 382.365–3. To determine the maximum hydraulic application rate, the measured infiltration rate at the infiltrative surface shall be divided by the correction factor as listed in Table 382.365–3.		Table until final copy of standard 1002 is available.
45	382.365 (c)2.	Incorp. WI Conservation Practice Standards. Relates to storms	DIS	Repeal Table 382.365-1 to 3.		Table until final copy of standard 1002 is available.
46	382.37 (3) (b) 4.	New - Issues w/water supply quality & effective means to flush out system.	DIS, amended by PAC	Addition to: Create 4. Private water mains and water services for campgrounds Water supply systems shall be provided with provisions for effective flushing of the system, at a minimum of 10 feet per second until clear. Note: See Appendix 382 for additional information. Discussion: What constitutes "effective flushing"? NFPA 24 version 2007 is adopted by reference in SPS 381. Issues w/getting safe samples for effective water quality.	More restrictive	6/14: Left off here. 8/9: Motion to create language as shown. 8/9: Motion to create note "See Appendix 382 for additional information.'

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						8/9: Motion to add table 10.10.2.1.3 to appendix 382.
47	382.40 (3) (e)	Code not able to keep pace w/changes to the date of the standard.	DIS	Multipurpose piping system. 1. Except as provided in subd. 2., a multipurpose piping system shall be designed and installed in accordance with this section and the current NFPA 13D standard. Consider additional language to address multifamily facilities. [Per Dept.: 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 is specified.]		No action required.
47a	382.40 (5)	Incorporate language from SPS 325 (UDC) due to repeal of s. SPS 325.01 (2) (a) to (c).	PAC	Create SPS 382.40 (5) (am) (am) Tankless water heaters. [Need verbiage for intro.] 1. The minimum flow rate of a tankless type water heater may be obtained by multiplying 0.65 by the calculated hot water gallons per minute demand, as determined by SPS 382 Tables 382.40–1b and 382.40–3, provided the heater will achieve a water temperature of 110° F at the terminal fitting or faucet. 2. The sizing method in para subd. (a) 1. may not be used for sizing a water heater serving a high-flow fixture, a hose bibb, a hydrant, or a fixture that is required to have a supply line with a diameter larger than one-half inch. 3. For the purposes of this subsection, "high-flow fixture" means a fixture with a flow rate of more than 4 gallons per minute, at 80 pounds per square inch, and a water velocity not exceeding 8 feet per second. SPS 382.40 (5) (a) (note) Note: Residential exclusion see s. SPS 325.01 (2).		9/19: Motion to create SPS 382.40 (5) (am) and repeal 382.40 (5) (a) (note).
48	382.40 (7) (d)1.	Additional pressure need by manufacturers	DIS, amended by PAC	Except as provided in subd. 1. a. to ed., water supply systems shall be designed to provide at least 8 psig of flow pressure at the outlets of all fixture supplies. d. Minimum pressure required by manufacturer for fixture, or appliance, or equipment to operate.		8/9: Motion to adopt as amended.
49	382.40 (8) (b) 10.	New – Water supply quality issues and inability to effectively to flush lines.	DIS, amended by PAC	Addition to: Private water mains shall be provided with provisions for effective flushing of the system, at a minimum of 10 feet per second until clear. Note: See ch. SPS 382 appendix for further explanatory information. [Note to DPD.: Ensure notes refer to correct reference.]	More restrictive	8/9: Motion to amend provision as shown and add note in Appendix referring to Table 10.10.2.1.3.
50	382.40 (8) (d) 7.	New - Issues w/water supply quality	DIS, amended by PAC	Create: The main water distribution systems piping one nominal pipe size over code minimum shall be provided with provisions for effective flushing of the system at 8 feet per second.	More cost effective than to retrofit. [Need cost]	8/9: Motion to adopt as amended. 8/9: Motion to add table to appendix 382

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		& effective means to flush system.		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.		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	Flushing and disinfection of potable water supply systems. 1. a. Before a newly constructed water supply system is to be put into use, the piping of the system shall be filled flushed with water and disinfected, and allowed to stand for at least 24 hours. After 24 hours. Each water outlet shall be flushed beginning with the outlet closest to the building control valve and then each successive outlet in the system. The flushing at each water outlet shall continue for at least one minute and until the water appears clear and with no trace of disinfectant at the outlet. b. Each portion of a water supply system which is altered or repaired shall be flushed for at least one minute and until the water appears clear. Check IPC and UPC provisions for disinfection for potable water supply systems. Review guidance documents for disinfection and incorporate into code. Could incorporate language from IPC 610. 10/10: 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? For abandoned well, put new in. Now have to treat water – DIS does plan review. Inspected to ensure proper operations, followed up with DNR, not aware with DHS inspections – may check for bacterial free. Health concerns, DIS finds out after the fact during routine inspections, added after plan review.	Incorporates IPC & UPC model codes.	8/9 – Motion to table until next meeting to identify standard. 10/10 – Motion to adopt language as amended.
51a.	382.50 (2) (b) 2.		DIS	2. 'Actions.' All fixtures used by medical and nursing staff, and all lavatories used by patients and food handlers shall be equipped with valves that can be operated without the use of hands. a. Where wrist blade handles are used for this purpose, the handles shall not exceed 4 1/2" in length, except handles on scrub		

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				sinks and clinical sinks shall be no less than 6" long. b. A single lever faucet handle may be used in lieu of wrist blades.		
52	382.50 (3) (b) 9.	Issues w/ bacterial control. Relates to HC facilities. Goal is to minimize/prev ent stagnation of water.	DIS, amended by PAC	Create 382.50(3) (b) 9. and 382.40 (8) (i) 5. Dead ends within the water distribution systems cannot exceed 10 pipe diameters. Amend 381.01 (68) definition for "dead end" and create 2. 1.a branch leading to(no amendment to 1.) 2. Any portion of the water distribution system terminating by means of a plug, cap or closed fitting and with no outlet. 8/9 Discussion: Consider stagnation prevention in healthcare section. Consider defining & eliminating dead ends.	Major - Long- term benefit [Need cost]	8/9: Motion to amend definition for 'dead ends' as shown. 8/9: Motion to create 382.40 (8) (i) 5. and 382.50 (3) (b) 9. to read as shown.
53	382.50 (3) (b) 10.	Issues of bacterial control. CBRFs under DHS rule.	DIS, amended by PAC	Create 382.50(3) (b) 10. Water outlets accessible to patients shall have laminar flow. without the use of an aerator.	Major	8/9: Left off here. 9/19: Motion to create SPS 382.50 (3) (B) 10. and adopt as amended.
54	382.50 (3) (b) 4.	greater legionella control	DHS to DIS, amended by PAC	Amend 382.50 (3) (b) 4. a.A hot water distribution system shall be under constant recirculation to provide continuous hot water at each hot water outlet, except that uncirculated hot water distribution piping may not exceed 25 3-feet in developed length. b. A hot water distribution system using temperature maintenance for bacterial control shall be under constant recirculation to provide continuous hot water at each hot water outlet, except that uncirculated hot water distribution piping may not exceed 3 feet in developed length. Discussion: Relates to healthcare facilities. Recommended by CDC. This is a national push. 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. New order out w/Legionella. Guidelines for hospitals to conform with. Action items: 9/19: Get data to support recommendation of 3 feet. Get data from other states, CDC, and NIH relating to legionella control measures	Significant impact, added expense [Need cost and data to support proposal]	9/19: Motion to table until next meeting pending supporting data & information. 10/10: Motion to create 328.50 (3) (b) 4.b.

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				10/10: When adding daisy-chain, circuit setters, pumps, etc. – if not balanced, have more piping than before, making it difficult to maintain and balance.		
55	382.50 (3) (b) 5.	Temperature maintenance issues	DIS	Water provided to patient showers, therapeutic equipment and all types of baths shall be installed with control valves that are pressure balanced and thermostatically controlled which automatically regulate the temperature of the water supply to the fixture fitting outlet within a temperature range of 110°F to 115°F. Such control valves shall automatically reduce flow to 0.5 gpm or less when the water supply to the fitting outlet exceeds 115°F or when loss of cold water pressure occurs. For Discussion: Currently 3 choices. Maintenance challenges to readjust. Not practical. Eliminate pressure balance. [Note to DPD: Need to revise appendices accordingly.]	More cost initially, offset w/lower maintenance cost. Reduces staff time.	9/19: Left off here. 10/10: Motion to adopt as proposed.
56	382.50 (3) (b) 6.	Codifying current practice. ASHRAE has new standards and needs further review.	DIS	Hot water distribution systems shall be installed and maintained to provide bacterial control by one of the following methods: a. Water stored and circulation initiated at a minimum of 140°F and with a return of a minimum of 124°F. b. Water chlorinated at 2 mg/L residual. Note: Additional information may be contained in ASHRAE Guideline 12–2000, Minimizing the Risk of Legionellosis Associated with Building Water Systems. This standard is published by the American Society of Heating, Refrigerating and Air–Conditioning Engineers (ASHRAE); 1791 Tullie Circle, N.E., Atlanta, GA 30329, phone: (800) 5–ASHRAE or (404) 636–8400 ext. 507; fax: (404) 321–5478; e–mail: orders@ashrae.org; or online at www.ashrae.org. c.Another disinfection system approved by the department. Note: See explanatory information for further information. [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)] [MA: Add Link to guidance documents] For 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.		10/10: Motion to adopt with added note.

		SP	S 382 DESIGN	, CONSTRUCTION, INSTALLATION, SUPERVISION, MAINTENANCE, AND INSPECTION OF PLU	MBING	
NO.	NO. RULE ISSUE/REASON PROPOSED PROVISION FOR CHANGE BY			EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
				Recommend use of redundant systems. Guidance Documents to be incorporated in appendices, in addition to a new guidance document relating to Chloramines.		
57	382.50 (3) (b) 8.	Clarification	DIS, amended by PAC	except as provided in subd. 7., a A water distribution system may not be designed, installed, and maintained so that the maximum temperature to fixture fitting extlets exceeds 180°F. The hot water distribution system to patient areas shall be provided with an automatic control valve to ensure complete shut-down of flow if the temperature exceeds 180°F. protected by a fail-safe control valve. For Discussion: Clarify that failsafe needs to be in place. Prevents hot water creep/malfunction.		10/10: Motion to amend as shown.
57a	382.50 (3) (b) 7.		PAC	7- A water distribution system may not be designed, installed and maintained so that the maximum temperature to fixture fitting outlets Water discharged from a fixture fitting outlet accessible to patients may not exceeds exceed 115°F.		10/10: Motion to amend as shown.
58	382.41 (5) (d) 1.	Alternate standard. Creation of "b" is an exception to existing code.	DIS	 a. A cross connection control device or cross connection control assembly may not be located in uninhabitable spaces susceptible to flooding. b. A cross connection control device or cross connection control assembly that does not incorporate a vent port may be installed in an uninhabited location susceptible to flooding. For Discussion: If vent, can be in pit. Flooding of control device is not a factor in the operation for the protection of potable water. Ryan action Item: Create definition for method and better definition for cross connection control assembly. 	Less restrictive.	10/10: Motion to adopt.
58a.	382.60 (2)		DIS	(2) INSTALLATION. (a) Piping hangers and anchors shall be securely attached to the building's structure at intervals to support the piping and its contents, but not at intervals greater than those specified in Table 382.60, except PVC used for venting may have a maximum horizontal spacing of 5 feet. The connection of drain piping to a fixture or appliance shall be considered a point of support.		
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 Discussion: SPS 382.70 is total performance-based provision.		10/10: Motion to adopt as shown.

	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/St						

	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			3. Health care plumbing <u>and laboratory</u> appliances.					
2.									
3.									
4.									
5.									
6.									
7.									
8.									
				Air Admittance Valves (See #18)					
				Consider adding "fixtures shall drain dry"? Determine where this provision should be placed in SPS 384. (See #19)					
					-				

	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/S				

	COMMITTEE MEMBER ITEMS FOR DISCUSSION AND CONSIDERATION									
NO. RULE ISSUE/REASON PROVISION FOR CHANGE		PROPOSED BY	EXISTING LANGUAGE AND PROPOSED CHANGE		COMMENTS/STATUS					
1	SPS 325	Incorporate/ consolidate plumbing related items in SPS 325 over to Wisconsin Uniform Plumbing Code	Gardner	Extent of problem: Plumbers do not typically look outside the plumbing code for plumbing related issues. This section is best served by being in the plumbing code. What will happen if change not made: Potential code violations by plumbers unaware that this code exists.	Should be a cost savings as this chapter will be in the plumbing code with other plumbing related items.	9/19: Motion to repeal SPS 325.01 (2) to (4).				
2	SPS 382.22 (8)	Require the instruments used for testing cross connection control assemblies (ccca) be tested and calibrated annually	Sladky	Description of problem: Cross connection control assemblies are being tested with equipment that is out of tolerance and inaccurate. This can cause false passing results as well as false fails. The suggestion is to make the testing equipment a registered object and track it in the same manner as a ccca. In addition, add a line in the ccca test report stating what instrument was used to perform the test. If the testing device is not compliant, the test would entry would be rejected. Extent of problem: According to one calibration contractor 70% of the instruments he services are out of the acceptable range to ensure safe results. Many of the people testing the devices perform a considerable number each year. If their testing device is off there is a real danger. Additionally if a instrument is out of calibration they may be failing devices that should pass causing unwarranted expense to the owner. What will happen if change not made: Continued risk to the potable water supply as well as added cost to some bfp owners due to "false fails". 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?	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: Motion to table.				

	COMMITTEE MEMBER ITEMS FOR DISCUSSION AND CONSIDERATION									
NO.		ISSUE/REASON	PROPOSED	EXISTING LANGUAGE AND PROPOSED CHANGE		COMMENTS/STATUS				
	PROVISION	FOR CHANGE	BY		IMPACT/COST	_				
				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.						

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

	NON-COMMITTEE MEMBER ITEMS FOR DISCUSSION AND CONSIDERATION							
NO. RULE ISSUE/REASON PROPOSED BY EXISTING LANGUAGE AND PROPOSED CHANGE		EXISTING LANGUAGE AND PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS				
				Commercial Building Code as to fire protection provisions for multipurpose piping systems. 2. Fire department connections are prohibited in a multipurpose piping system.				
1 a	SPS 382.40(7)(e)	Consider allowing use of pex pipe	DIS	10/10: Discussion: Multipurpose piping: Tom discussed with a fire chief to allow use of pex pipe. Pex pipe being burned as it heats and putting out fire. Cons: Material not readily available and expense of UL piping. (If permitted, would create note under (e))		10/10: Discussion to be continued at next meeting.		
2	SPS 382.30 (13) 2.	Provision lacks performance requirements.	Tom Burke, Victoria+Albert Baths, United Kingdom Submitted letter to Department	Request is to change the standards to make a fair performance requirement for all products that feature an overflow. This provision references the requirement for an overflow on bathtubs without any reference to performance requirements. Concern that the existence of an overflow is pointless without minimal requirements set from performance standards. ASME Standard (A112.18.2/CSA B125.2) does not detail performance requirements for overflows. CSA B45.5/IAPMO Z124, Standard for Plastic plumbing fixtures, only refers to performance requirements for overflows in sinks and lavatories. Homeowners feel the overflows are capable of taking water away from the tub filler at the same rate the tub is filling at. Discussion: Was not intended for "overfilling" rather "overflow".		10/10: Motion to reject recommendation as requester may apply for an alternate approval.		
3	SPS 384.11 A-384.11	Add ICC-ES as another viable third- party listing agency	Maribel Campos ICC Evaluation Services (ICC-ES) Submitted to Department	Discussion: ICC is accredited by ANSI and issue certifications for plumbing mechanical, and gas products. (Certificate included in agenda packet).	None			

Future Discussions:

Incorporate water tanks (elevated, below ground) – who is regulating? Incorporate DNR language. CBRF and hospice, dialysis

CERTIFICATE of ACCREDITATION

The American National Standards Institute hereby affirms that

ICC Evaluation Service, LLC.

3060 Saturn Street, Suite 100, Brea, CA 92821, USA

ACCREDITATION ID# 1000

meets the ANSi accreditation program requirements and those set forth in ISO/IEC 17065:2012 Conformity assessment -- Requirements for bodies certifying products, processes and services

LIST OF CERTIFICATION SCHEME(S)

ICC-ES Evaluation Reports Program
ICC-ES PMG Listing Program
ICC-ES Building Products Listing Program

EPA WaterSense - WaterSense® Product Certification System
ENERGY STAR® Conditions and Criteria for Recognition of Certification Bodies for the ENERGY STAR® Program

LIST OF STANDARDS

SRCC Standard 100, "Minimum Standards for Certifying Solar Collectors"

SRCC Document OG-100 "Operating Guidelines For Certifying Solar Collectors"

SRCC Standard OG 300 "Minimum Standards for Certifying Solar Water Heating Systems"

for programs within the following (Please see the following pages)

Land tollwheck

ANSI VICE PRESIDENT, ACCREDITATION SERVICES

2019-06-01 VALID THROUGH





PRODUCT CERTIFICATION

ICC Evaluation Service, LLC.

ACCREDITATION ID# 1000

SCOPE OF ACCREDITATION

GRANTED 2015-03-10: EPA ENERGY STAR® Building Products
- Roofs

EPA WaterSense

- Commercial Pre-Rinse Spray Valve
 High-Efficiency Lavatory Faucets
 High-Efficiency Flushing Urinals
 Showerheads

- Tank-Type High-Efficiency ToiletsWeather-Based Irrigation Controllers

GRANTED 20	15-03-10:	GRANTED 20	015-03-10:
13.030.01	Wastes in general	23.040.60	Flanges, couplings and joints
13.030.10	Solid wastes	23.040.70	Hoses and hose assemblies
13.030.20	Liquid wastes. Sludge	23.040.80	Seals for pipe and hose assemblies
13.030.30	Special wastes	23.040.99	Other pipeline component
13.060.01	Water quality in general	23.060.01	Valves in general
13.060.10	Water of natural resources	23.060.10	Globe valves
13.060.20	Drinking water	23.060.20	Ball and plug valves
13.060.25	Water for industrial use	23.060.30	Gate valves
13.060.30	Sewage water	23.060.50	Check valves
13.060.45	Examination of water in general	23.060.99	Other valves
13.060.50	Examination of water for chemical substances		
13.060.60	Examination of physical properties of water	23.120	Ventilators. Fans. Air-conditioners
13.060.70	Examination of biological properties of water		
13.060.99	Other standards related to water quality	27.010	Energy and heat transfer engineering in general
13.240	Protection against excessive pressure	27.060.30	Boilers and heat exchangers
23.040.01	Pipeline components and pipelines in general	27.160	Solar energy engineering
23.040.10	Iron and steel pipes		
23.040.15	Non-ferrous metal pipes	91.010.01	Construction industry in general
23.040.20	Plastics pipes	91.010.10	Legal aspects
23.040.40	Metal fittings	91.010.20	Contractual aspects
23.040.45	Plastics fittings		
23.040.50	Pipes and fittings of other materials		

PRODUCT CERTIFICATION

ICC Evaluation Service, LLC.

ACCREDITATION ID# 1000

SCOPE OF ACCREDITATION

GRANTED 20	015-03-10:	GRANTED 201	5-03-10:
91.010.30	Technical aspects	91.100.50	Binders. Sealing materials
91.010.99	Other aspects	91.100.60	Thermal and sound insulating materials
	'	91.100.99	Other construction materials
91.060.01	Elements of buildings in general		
91.060.10	Walls. Partitions. Façades	91.120.01	Protection of and in buildings in general
91.060.20	Roofs	91.120.10	Thermal insulation of buildings
91.060.30	Ceilings. Floors. Stairs	91.120.20	Acoustics in building. Sound insulation
91.060.40	Chimneys, shafts, ducts	91.120.25	Seismic and vibration protection
91.060.50	Doors and windows	91.120.30	Waterproofing
91.060.99	Other elements of buildings	91.120.40	Lightning protection
	·	91.120.99	Other standards related to protection of and in buildings
91.080.01	Structures of buildings in general		,
91.080.10	Metal structures	91.140.40	Gas supply systems
91.080.20	Timber structures	91.140.65	Water Heating equipment
91.080.30	Masonry	91.140.70	Sanitary installations
91.080.40	Concrete structures		•
91.080.99	Other structures	91.180	Interior finishing
			•
91.090	External structures	91.190	Building accessories
			•
91.100.01	Construction materials in general	97.100.01	Heating appliances in general
91.100.10	Cement. Gypsum. Lime. Mortar	97.100.10	Electric heaters
91.100.15	Mineral materials and products	97.100.20	Gas heaters
91.100.23	Ceramic tiles	97.100.30	Solid fuel heaters
91.100.25	Terracotta building products	97.100.40	Liquid fuel heaters
91.100.30	Concrete and concrete products	97.100.99	Heaters using other sources of energy
91.100.40	Products in fibre-reinforced cement		-