

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

Tony Evers, Governor Dawn B. Crim, Secretary

VIRTUAL/TELECONFERENCE PLUMBING CODE ADVISORY COMMITTEE MEETING

Virtual, 4822 Madison Yards Way, Madison Contact: Brad Wojciechowski (608) 266-2112 September 28, 2021

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

10:00 A.M.

OPEN SESSION - CALL TO ORDER - ROLL CALL

- A. Adoption of Agenda (1-2)
- B. Approval of Minutes for August 24, 2021 (3-4)
- **C.** Reminders: Scheduling Concerns
 - 1) Attendance Conflicts Impacting September 28, 2021 Meeting
 - 2) Attendance Confirmation for October 27, 2021 Meeting
- D. Administrative Matters Discussion and Consideration
 - 1) Committee, Department and Staff Updates
- E. Administrative Rule Matters Discussion and Consideration (5)
 - 1) Review of Plumbing Code Changes (6-29)
 - a. SPS 381 Definitions and Standards
 - b. SPS 382 Design, Construction, Installation, Supervision, Maintenance, and Inspection of Plumbing
 - c. SPS 384 Plumbing Products
 - d. IECC C404
- F. Public Comments

ADJOURNMENT

NEXT MEETING: OCTOBER 27, 2021

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 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. Requests for interpreters for the deaf or hard of hearing, or other accommodations, are considered upon request by contacting the Affirmative Action Officer, 608-266-2112, or the Meeting Staff at 608-266-5439.

VIRTUAL/TELECONFERENCE PLUMBING CODE ADVISORY COMMITTEE MEETING MINUTES AUGUST 24, 2021

PRESENT: Fred Gardner, Justin Kressin, Roger Musolff, Jason Sladky

EXCUSED: Joseph Kiedrowski, Randy Lorge, Spencer Statz

STAFF: Brad Wojciechowski, Executive Director; Jameson Whitney, Legal Counsel;

Garry Krause, Bureau Director; Tony Martin, Plumbing Plan Reviewer; Glen Schlueter, Plumbing Product Reviewer; Bruce Meiners, Plumbing Consultant; Philip Harkleroad, Section Chief; Ron Soquet, Plumbing Plan Reviewer; Justin Gavin, Integrated Services Section Chief-Commercial Buildings; Brandon Piper, Administrator-Division of Industry Services; Megan Glaeser,

Bureau Assistant; and other Department staff

Jason Sladky, Chairperson, called the meeting to order at 10:00 a.m. A majority of four (4) members was present.

ADOPTION OF AGENDA

Amendments to the Agenda

• **Remove** item "F. Public Agenda Requests – Discussion and Consideration, 1) Proposed Commercial Energy Code Amendments, 1. Horticultural Lighting Efficacy

MOTION: Justin Kressin moved, seconded by Fred Gardner, to adopt the Agenda as

amended. Motion carried unanimously.

APPROVAL OF MINUTES OF JULY 27, 2021

MOTION: Jason Sladky moved, seconded by Fred Gardner, to approve the Minutes

of July 27, 2021 as published. Motion carried unanimously.

ADMINISTRATIVE RULE MATTERS

Plumbing Code Changes

MOTION: Roger Musolff moved, seconded by Justin Kressin, to recommend

approval of SPS SPS 381 Definitions and Standards (sections Table 381.20-5, Table 381.20-7, Table 381.20-11, Table 381.20-3e, 381.20-4, 381.01(117), 381.01(M), 381.xx (definition of "hose connection splitter")) as outlined in the 8/24/2021 agenda materials with appropriate notes.

Motion carried unanimously.

MOTION: Justin Kressin moved, seconded by Roger Musolff, to recommend

approval of SPS 382 Design, Construction, Installation, Supervision,

Maintenance, and Inspection of Plumbing (sections A-382.30(11)(d) Table

A, Table 382.40-9, Table 382.30-1, 382.32(3)(c)3, 382.41(4)(k)2, 382.41(5)3.a, 382.41(3)(b)5.c, 382.50(3)(b)11, 382.60(2), 382.70(4), 382.20, 382.33(8)(d)3, 382.35(3)(f), 382.37(3)(b)2. a. and b, 382.36(14),

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382.31(17)(d), 382.33(9)(f)2 (renumbered to 382.36(14)(c)2), 382.33(9)(f)4 (renumbered to 382.36(14)(c)3), 382.33(9)(f)5 (renumbered to 382.36(14)(d)2), 382.36(8)(a)2, 382.36(8)(a)2.c, 382.35(3)(a), 382.36(12)(b)2.a) as outlined in the 8/24/2021 agenda materials with appropriate notes. Motion carried unanimously.

MOTION: Roger Musolff moved, seconded by Justin Kressin, to recommend

approval of SPS 384 Plumbing Products (sections 384.20(5)(L), Table 384.30-7 and 8, Table 384.30-10, Table 384.11, Table 384.10, 384.25(1)(a), 384.40(6)(b), 384.40(14)(b), 384.20(6)(d), 384.30(3)(e)3,

384.20(4)(b)9.b) as outlined in the 8/24/2021 agenda materials with

appropriate notes. Motion carried unanimously.

MOTION: Fred Gardner moved, seconded by Jason Sladky, to table discussion of

sections 381.xx (definition of "revision")(items 3 and 142), until a future

meeting. Motion carried unanimously.

ADJOURNMENT

MOTION: Fred Gardner moved, seconded by Jason Sladky, to adjourn the meeting.

Motion carried unanimously.

The meeting adjourned at 11:27 a.m.

State of Wisconsin Department of Safety & Professional Services

AGENDA REQUEST FORM

1) Name and title of pers	on submitting the request:		2) Date when request submitted:				
Phil Harkleroad			09/14/2021				
				red late if submitted after 12:00 p.m. on the deadline ess days before the meeting			
3) Name of Board. Comm	nittee, Council, Sections:		date willen is o busin	ess days before the meeting			
Plumbing Code Advisory							
4) Meeting Date:	5) Attachments:	6) How s	should the item be tit	tled on the agenda page?			
09/28/2021	⊠ Yes	•	ninistrative Rule Matters				
03/20/2021	□ No			ing Code Changes under SPS 381, 382,			
7) Place Item in:	8) Is an appearan	ce hefore	the Board being	9) Name of Case Advisor(s), if required:			
✓ Open Session✓ Closed Session	scheduled? (If ye Appearance Requ	s, please	complete	3) Name of Gase Advisor(s), in required.			
10) Describe the issue a	nd action that should be add	dressed:					
1. Review of Draft	review table for SPS (pdf)						
2. Member question	ns, issues, etc.						
11)	A	Authorizat	tion				
			09/14/2021				
Signature of person make	ring this request			Date			
Philip Harkleroad							
Supervisor (if required)				Date			
Executive Director signa	ture (indicates approval to a	add post a	agenda deadline iten	n to agenda) Date			
2. Post Agenda Deadlin	attached to any documents s e items must be authorized l	by a Supe	ervisor and the Polic	y Development Executive Director. e to the Bureau Assistant prior to the start of a			

meeting.

Wisconsin Department of Safety and Professional Services

Plumbing Code Advisory Committee Plumbing Code Rule Recommendations for SPS Chapters 305, 381 to 387

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**.

	SPS 382							
NO.	RULE PROVISION	ISSUE/REASON FOR CHANGE	PROPOSED BY	Existing Language and Proposed Change	POTENTIAL IMPACT/COST	COMMENTS/STATUS		
					9/22/2021			
				Document for September 28, 2021				
				meeting				
				Submit September 14 th .				

NO.	RULE PROVISION ISSUE/REAS ON BY EXISTING LANGUAGE AND PROPOSED CHANGE		POTENTIAL IMPACT/COST	COMMENTS/STATUS		
56.	382.50 (3) (B) 6.	CODIFYING CURRENT PRACTICE. NOTE TO DPD: REPEAL B., CREATE BM. TO E., AND RENUMBER C. TO F.	DIS, AMENDED BY PAC	6. HOT WATER DISTRIBUTION SYSTEMS MAY NOT INCLUDE A HEAT RECOVERY SYSTEM AND SHALL BE INSTALLED AND MAINTAINED TO PROVIDE BACTERIAL CONTROL DISINFECTION 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. F. ANOTHER DISINFECTION SYSTEM METHOD APPROVED BY THE DEPARTMENT. NOTE: SEE EXPLANATORY INFORMATION FOR FURTHER INFORMATION.	SIGNIFICANT IMPACT - ADDED EXPENSE	BRUCE
56A.	382.50 (3) (B) 6. <u>BM.</u> <u>TO E.-F.</u>	CREATE bm. to e. f.		bm. CHLORIDE DIOXIDE. d. 0.5 CHLORINE e. CHLORAMINE. f. ANOTHER DISINFECTION SYSTEM APPROVED BY THE DEPARTMENT OR UTILIZING DISINFECTANT PROVIDED BY THE MUNICIPALITY		BRUCE

	<u>SPS</u> 382.33(9)(f)			382.33(9)(f) Elevator drains. See SPS 382.36(14)		GIVES REFERENCE TO NEW LOCATION
						BRUCE
	SPS 382.33(9)(f) 1.			1.All drains serving elevator pits shall discharge to the storm drain system as specified in S. SPS 382.36 (4)		MOVED TO SPS 382.36(14) BRUCE
	SPS 382.33(9)(f) 3.			3. A sump may not be located in an elevator machine room.		MOVED TO SPS 382.36(14) BRUCE
51D.	382.50 (3) (B) INTRO. AND 1.	REVISE 1. AND CREATE A. AND 1. TO 5. Based on former MOU with DHS, codifies requireme nts	DIS	(b) HOSPITAL, COMMUNITY-BASED RESIDENTIAL FACILITY, INPATIENT HOSPICE, AND NURSING HOME WATER SUPPLY SYSTEMS. 1. water supply systems serving a hospital, community-based residential facility, inpatient hospice, or nursing home, or additions to the facilities without a building division as defined by the department of health services, shall comply with all of the following: a. Facilities with a population exceeding 250 occupants shall have a water management plan. the management plan shall include all of the following: 1. An emergency water contingency plan program on the loss or contamination of the water supply. 2. A pathogen control plan. 3. The emergency and routine disinfection procedures. 4. The identity of the individual responsible for the water quality. 5. The provisions for the periodic flushing of the water supply system. 6. Balancing valve report for the hot water distribution system.	7 STEPS OF A WATER MANAGEMENT CONTROL PROGRAM. ALIGN WITH ASHRAE 188.	BRUCE

155	SPS 382.40		ALTERNATIVE WATER SIZING.	BRUCE UPC Appendix M. "We Stand Water Calculator". One and two family and apartment buildings.
155 continued	SPS 382.40 (7)		SPS 382.40(7) Sizing of water supply piping. the sizing of the water supply system shall be based on the empirical method and limitations outlined in this subsection or on a detailed engineering analysis acceptable to the department. Note: See appendix for details for alternative methods for sizing of the water supply piping of one and two family and apartment buildings. (e.g. link to We Stand.	Create new table in appendix for the water demand calculator

156	<u>381.01(218A)</u>	UPDATE &	DSPS/GLEN	<u>381.01(218A):</u>	SAVINGS OF	UPDATES AND EXPANDS
		EXPAND	S.	"SIPHONIC ROOF DRAIN SYSTEM" MEANS A DRAINAGE SYSTEM DESIGNED TO RECEIVE WATER	TIME AND \$	CODE-BASED ROOF DRAIN
				COLLECTING ON A ROOF SURFACE VIA NEGATIVE PRESSURE CONDITIONS CREATED BY ROOF DRAINS THAT ALLOW WATER TO ENTER THE STORMWATER PIPING SYSTEM WHILE MINIMIZING THE INGRESS		OPTIONS BASED ON ANSI ACCREDITED
				OF AIR, GENERATING A NEGATIVE DIFFERENTIAL FLUID PRESSURE WITHIN THE PIPING SYSTEM		PERFORMANCE AND
				THEREBY INDUCING FULL-BORE FLOW (I.E., PIPE THEORETICALLY 100% CHARGED) WITHOUT PIPE		DESIGN STANDARDS,
				GRADIENT (I.E., PITCH).		ELIMINATES ALTERNATE
						APPROVALS, SIMPLIFIES
						PLAN REVIEW
	TABLES 381.20-			ASME/ANSI A112.6.9-2005 (R2015) OR ASTM/ANSI F2021-17		
	3E, 381.20-X (ASPE), 381.20-			ASPE/ANSI 45-2018.		SIPHONIC ROOF DRAINS
	5 AND 384.11					SIPHONIC ROOF DRAINAGE
				ASME/ANSI A112.6.4-2003 (R2012)		SYSTEM DESIGNS
						CONVENTIONAL ROOF,
						DECK AND BALCONY DRAINS
	382.36 (3) (D)			382.36 (3) (D): (D) ROOF STRUCTURES. ROOF STRUCTURES SERVED BY CONTROLLED FLOW ROOF DRAINAGE		
				SYSTEMS SHALL BE ENGINEERED IN ACCORDANCE WITH IBC SECTION 1611.3.		
	382.36 (10)			382.36 (10) ROOF DRAINS <u>:</u>		
				a. CONVENTIONAL ROOF, DECK AND BALCONY DRAINS SHALL CONFORM TO ASME A112.6.4-2003 (R2012) AND:		
				(ILEGIZ) AND.		
				1. ROOF DRAINS SHALL BE EQUIPPED WITH STRAINERS EXTENDING ≥ 4 INCHES ABOVE THE		
				SURFACE OF THE ROOF IMMEDIATELY ADJACENT TO THE ROOF DRAIN. STRAINERS SHALL HAVE AN AVAILABLE INLET AREA ABOVE THE ROOF ≥ 1.5 TIMES THE AREA OF THE		
				CONDUCTOR TO WHICH THE DRAIN CONNECTS.		
				2. ROOF DRAIN STRAINERS USED ON SUN DECKS, OPEN PARKING DECKS AND SIMILAR AREAS		
				SHALL BE OF THE FLAT SURFACE TYPE, SHALL BE LEVEL WITH THE DECK AND SHALL HAVE		
				AN AVAILABLE INLET AREA ≥ 2 TIMES THE AREA OF THE CONDUCTOR TO WHICH THE DRAIN CONNECTS.		
				b. SIPHONIC ROOF DRAINS SHALL CONFORM TO ASME A112.6.9-2005 (R2015) OR ASTM F2021-17		
				AND BE INDELIBLY MARKED WITH THE FOLLOWING MINIMUM INFORMATION:		
				THE DOME, BODIES, AND BAFFLE PLATES SHALL BE MARKED WITH THE MANUFACTURER'S		
				NAME OR TRADEMARK.		
				2. THE BAFFLE PLATE AND DRAIN BODY SHALL BE MARKED WITH THE BAFFLE PLATE MODEL		
				NUMBER, RESISTANCE VALUE, K, AND WORDS, "REPLACE MISSING BAFFLE WITH		
				MODEL ."		
				c. <u>CONTROLLED FLOW ROOF DRAINS.</u>		
				APPLICATION. IN LIEU OF SIZING THE ROOF DRAIN PIPING ON THE BASIS OF ACTUAL		
				MAXIMUM HORIZONTAL ROOF AREAS AS SPECIFIED IN SUB. (5)(A)1., THE ROOF DRAIN		
			<u> </u>			10

	PIPING MAY BE SIZED BASED ON THE EQUIVALENT ADJUSTED MAXIMUM HORIZONTAL
	PROJECTED ROOF AREAS WHICH RESULT FROM CONTROLLED FLOW AND STORAGE OF
	STORM WATER ON THE ROOF.
	2. ROOF STRUCTURES. ROOF STRUCTURES SERVED BY CONTROL FLOW ROOF DRAINAGE
	SYSTEMS SHALL BE ENGINEERED IN ACCORDANCE WITH IBC SECTION 1611.3.
	3. INSTALLATION. CONTROL OF STORM WATER RUNOFF SHALL BE BY CONTROL DEVICES.
	CONTROL DEVICES SHALL BE PROTECTED BY STRAINERS.
	4. SIZING. ≥ 2 DRAINS SHALL BE INSTALLED ON ROOF AREAS ≤ 10,000 FT. IN AREA AND ≥ 4
	DRAINS ON ROOFS > 10,000 FT. ² IN AREA.
	5. THE WATER FROM A 10-YEAR, 24-HOUR STORM EVENT SHALL NOT BE STORED ON THE
	ROOF FOR > 24 HOURS.
	d. <u>SECONDARY ROOF DRAINS.</u>
	1. SIZING. WHEN SECONDARY ROOF DRAIN SYSTEMS ARE INSTALLED, THE SECONDARY
	SYSTEM SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS IN THIS SECTION.
	THIS SECTION.
	2. PROHIBITED CONNECTION. SECONDARY ROOF DRAIN SYSTEMS MAY NOT BE CONNECTED
	TO PRIMARY ROOF DRAIN SYSTEMS.
	3. DISCHARGE. ALL SECONDARY ROOF DRAIN SYSTEMS SHALL DISCHARGE IN ACCORDANCE
	WITH TABLE 382.38–1.
	4. THE OPENING FOR THE SECONDARY ROOF DRAINAGE SHALL BE ≥ 2 IN. (51 MM) AND ≤ 4
	IN. (102 MM) ABOVE THE BOTTOM OPENING OF THE PRIMARY ROOF DRAIN.
	5. OVERFLOW DRAINS. SECONDARY OVERFLOW DRAINS AND OVERFLOW STANDPIPES RIM
	ELEVATIONS SHALL BE ≥ 2 IN. AND < 4 IN. ABOVE THE BOTTOM ELEVATION OF THE
	PRIMARY ROOF DRAINS.
	C POOT STRUCTURES POOT STRUCTURES SERVED BY CONTROL FLOW POOT PRAININGS
	6. ROOF STRUCTURES. ROOF STRUCTURES SERVED BY CONTROL FLOW ROOF DRAINAGE SYSTEMS SHALL BE ENGINEERED IN ACCORDANCE WITH IBC SECTION 1611.3.
	STATE OF ENGINEERED IN THOSONOMING THE THOSONOMING THE TOTAL OF STATE OF ST
	e. THE DESIGN OF CONTROLLED FLOW AND SIPHONIC ROOF DRAINAGE SYSTEMS SHALL
	CONFORM TO ASPE 45-2018.
	(10) ROOF DRAINS. (A) GENERAL ROOFS. ROOF DRAINS SHALL BE EQUIPPED WITH STRAINERS
	EXTENDING NOT LESS THAN 4 INCHES ABOVE THE SURFACE OF THE ROOF IMMEDIATELY ADJACENT TO THE ROOF DRAIN. STRAINERS SHALL HAVE AN
	AVAILABLE INLET AREA ABOVE THE ROOF OF NOT LESS THAN
	1.5 TIMES THE AREA OF THE CONDUCTOR TO WHICH THE DRAIN CONNECTS.
THE FORMER	(B) FLAT DECKS. ROOF DRAIN STRAINERS USED ON SUN DECKS, OPEN PARKING DECKS AND SIMILAR
VERSION →	AREAS SHALL BE OF THE FLAT SURFACE TYPE, SHALL BE LEVEL WITH THE DECK AND SHALL HAVE AN AVAILABLE INLET AREA OF NOT LESS THAN 2
	TIMES THE AREA OF THE CONDUCTOR TO WHICH THE DRAIN
	CONNECTS:
	11

		(11) SECONDARY ROOF DRAINS. (A) SIZING. WHEN SECONDARY ROOF DRAIN SYSTEMS ARE INSTALLED	
		THE SECONDARY SYSTEM SHALL BE	
		SIZED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS IN THIS SECTION.	
		(B) PROHIBITED CONNECTION. SECONDARY ROOF DRAIN SYSTEMS MAY NOT BE CONNECTED TO	
		PRIMARY ROOF DRAIN SYSTEMS.	
		(C) DISCHARGE. ALL SECONDARY ROOF DRAIN SYSTEMS SHALL DISCHARGE IN ACCORDANCE WITH	
		TABLE 382.38—1.	

157	TABLES 381.20-	UPDATE &	DSPS/GLEN				SAVINGS OF	UPDATES AND EXPANDS
157	11 AND 384.11	EXPAND	S.				TIME AND \$	CODE-BASED WATER REUSE OPTIONS BASED ON ANSI ACCREDITED PERFORMANCE AND DESIGN STANDARDS, ELIMINATES ALTERNATE APPROVALS, SIMPLIFIES PLAN REVIEW
				NSF/ANSI 350-2020				ONSITE RESIDENTIAL AND COMMERCIAL WATER REUSE TREATMENT SYSTEMS
				NSF/ANSI 350-1-2017				ONSITE RESIDENTIAL AND COMMERCIAL GREYWATER TREATMENT SYSTEMS FOR SUBSURFACE DISCHARGE
	382.70			NONPOTABLE WATER TREATMENT DEVICE TREAT NONPOTABLE WATER FOR THE US LISTED UNDER NSF/ANSI 350 OR NSF/ANSI AGENCY ACCEPTABLE TO THE DEPARTMENT WITH S. SPS 384.50. THE DESIGN AND INSTALLATION OF NON CONFORM TO S. SPS 382.34(3)(A) WIS. AND INSTALLATION OF NON CONFORM TO S. SPS 382.34(3)(A) WIS. AND INSTALLATION OF NON CONFORM TO S. SPS 382.34(3)(A) WIS. AND INSTALLATION OF NON CONFORM TO S. SPS 382.34(3)(A) WIS. AND INSTALLATION OF NON CONFORM TO S. SPS 382.34(3)(A) WIS. AND INSTALLATION OF NON CONFORM TO S. SPS 382.34(3)(A) WIS. AND INSTALLATION OF NON CONFORM TO S. SPS 382.34(3)(A) WIS. AND INSTALLATION OF NON CONFORM TO S. SPS 382.34(3)(A) WIS. AND INSTALLATION OF NON CONFORM TO S. SPS 382.34(3)(A) WIS. AND INSTALLATION OF NON CONFORM TO S. SPS 382.34(3)(A) WIS. AND INSTALLATION OF NON CONFORM TO S. SPS 382.34(3)(A) WIS. AND INSTALLATION OF NON CONFORM TO S. SPS 382.34(3)(A) WIS. AND INSTALLATION OF NON CONFORM TO S. SPS 382.34(3)(A) WIS. AND INSTALLATION OF NON CONFORM TO S. SPS 382.34(3)(A) WIS. AND INSTALLATION OF NON CONFORM TO S. SPS 382.34(3)(A) WIS. AND INSTALLATION OF NON CONFORM TO S. SPS 382.34(3)(A) WIS. AND INSTALLATION OF NON CONFORM TO S. SPS 382.34(3)(A) WIS. AND CONFORM TO S. SPS 382.34(3) WIS. SPS 382.34(3) WIS. SPS 382.34(ES SPECIFIED IN TABLE 382.70 WIS. AISI 350-1 BY AN ANSI ACCREDITED, THI NT; OR BE APPROVED BY THE DEPART POTABLE WATER TREATMENT DEVICE DM. CODE AND INCLUDE:	DM. CODE SHALL BE RD-PARTY, LISTING IMENT IN ACCORDANCE		
				THE SYSTEM OWNER AND REN FOR INSPECTION UPON REQUI INFORMATION:	ON. A MAINTENANCE LOG SHALL BE MAIN ONSITE. THE MAINTENANCE LO EST AND CONTAIN THE FOLLOWING N	G SHALL BE AVAILABLE		
		,		Action Inspect, clean and replace filters Inspect and verify treatment components and systems are operational and maintaining minimum treatment standards.	Service Interval ≤ 3 months In accordance with the manufacturer's and department's instructions.			
				Inspect and verify pump operation Inspect and verify valve operation Inspect and verify pressure tank	At start-up and ≤ 12 months thereafter At start-up and ≤ 12 months thereafter At start-up and ≤ 12 months			
				operation Clean storage tanks, inspect and verify locking devices Inspect precautionary labeling/marking	thereafter At start-up and ≤ 12 months thereafter At start-up and ≤ 12 months thereafter			

				OWNER AND REMAIN ONSITE INFORMATION: a. A DETAILED DIAGR SYSTEM COMPONED b. COMPLETE OPERAICS. INSTRUCTIONS ON d. COMPLETE MANUED b. MODEL NUMBER.	As required to prevent ponding, runoff and maintain mulch depth At start-up and ≤ 12 months thereafter ND MAINTENANCE MANUAL SHALL BE THE MANUAL SHALL CONTAIN THE FEATURE. THE MANUAL SHALL CONTAIN THE FEATURE. TION AND MAINTENANCE INSTRUCTION AND M	OCATION OF CRITICAL ONS. INTENANCE OR REPAIR.	
158	382.40(8)(D)7. AND 384.20(5)(R)6.	UPDATE/WDNR REQUEST	WDNR/GLEN S.	6. A HYGIENIC SAMPLING VALVES SHALL OF A CHEMICAL INJECTION SYSTEM OR V CONTAMINANT REGULATED UNDER NR 8 6. A. A WATER TREATMENT DEVICE THA HAVE A HYGIENIC SAMPLI	VATER TREATMENT DEVICE INSTALLED 309 AND/OR NR 140 WIS. ADM. CODE.	O TO MITIGATE A NT TANKS SHALL ALSO	SAMPLING VALVES ARE STIPULATED ON ALL SITE- SPECIFIC WATER TREATMENT APPROVAL LETTERS. THIS CHANGE CODIFIES THAT REQUIREMENT.
159	384.40(16)(A)	UPDATE/CLARIF Y	DSPS/GLEN S.	DIELECTRIC UNIONS SHALL BE INSTAL PIPING MATERIALS. DIELE	LED AT THE POINT OF CONNECTION O CTRIC UNIONS SHALL CONFORM TO A		NECESSARY TO PREVENT GALVANIC CORROSION.
160	TABLES 381.20- 11 AND 384.11	UPDATE & EXPAND	DSPS/GLEN S.		NSF 3-2019		COMMERCIAL WAREWASHING EQUIPMENT
							1

IECC		IECC, Section C404	IECC
161		IECC: Below are two options for working with the IECC C404. Option one: full alignment with IECC C404. OPTION TWO: MEASURED CHANGES TO IECC C404	BRUCE MEINERS
		OPTION ONE: Full alignment to IECC C404	
	OPTION 1	SPS 381.01(xx). Public lavatory: Is a lavatory located in a public restroom; located outside of a public restroom; a hand wash sink required by Dept. of Agriculture Trade and Consumer Protection (DATCP), Dept. of Health Services (DHS), National Institute of Health (NIH), or United States Dept. of Agriculture (USDA) are considered public lavatory fixtures.	

161 continued 38	SPS 32.40(5)(b)	REVISE.	OPTION 1	SPS 382.40(5)(b) Temperature maintenance. For application to all commercial buildings. Inclusive of residential buildings with 3 tenants or more, which are 4 stories in height or greater above grade plane. Except as required in SPS 382.50(3)(b), if the developed length of hot water distribution piping from the source of the hot water supply to a plumbing fixture or appliance exceeds 140 feet distances in accordance with IECC C404.5.1 as presented on Table C404.5.1 or Per C404.5.2 and C404.5.2.1, a circulation system or self-regulating electric heating cable shall be provided to maintain the temperature of the hot water within the distribution piping. 1. Except as required in SPS 382.50(3)(b), if a circulation system is used to maintain the temperature, no uncirculated hot water distribution piping may exceed 25 feet distances in accordance with IECC C404.5.1 as presented on Table C404.5.1 or Per C404.5.2 and C404.5.2.1, in developed length. Heated-water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe to the water heater. Gravity and thermo-syphon circulating systems are prohibited. Except as required in SPS 382.50(3)(b), Controls for the circulating hot water system pumps shall automatically turn off the pump when the water is the circulation loop is at the desired temperature and when there is not a demand for hot water or shall be designed per C404.6.1 whichever is most restrictive 2. Except as required in SPS 382.50(3)(b), if a self-regulating electric heating cable is used to maintain the temperature, the cable shall extend to within 25 feet distances in accordance with IECC C404.5.1 as presented on Table C404.5.1 or Per C404.5.2 and C404.5.2.1, of each fixture or the appliance. 3. Water distribution piping conveying circulated water or served by a self-regulating electric heating cable shall be insulated in accordance with ch. SPS 322.44(2), and SPS 361 to 366 or IECC C403. to limit the heat loss at the external surface of the pipe i		B ruce
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				(c) Water heaters. all water heaters and safety devices shall be designed and constructed in accordance with s. SPS 384.20 (5) (p). Note: Water heaters are to be installed in accordance with the requirements specified in chs. sps 361 to 366 and chs. sps 320 to 325 with respect to energy efficiency, enclosures, clearances, and venting.	
162	SPS 382.40(5) (bm)	CREATED	OPTION 1	SPS 382.40(5)(bg) Temperature maintenance. for other buildings other than defined in (5)(b). if the developed length of hot water distribution piping from the source of the hot water supply to a plumbing fixture or appliance exceeds 100 feet, a circulation system or self-regulating electric heating cable shall be provided to maintain the temperature of the hot water within the distribution piping. 1. If a circulation system is used to maintain the temperature, no uncirculated hot water distribution piping may exceed 25 feet in developed length. 2. If a self-regulating electric heating cable is used to maintain the temperature, the cable shall extend to within 25 feet of each fixture or the appliance. 3. Water distribution piping conveying circulated water or served by a self-regulating electric heating cable shall be insulated in accordance with chs. SPS 322.44(2). and SPS 361 to 366 or IECC C403. 4. Water distribution piping served by self-regulating electric heating cable shall be identified as being electrically traced in accordance with ch. SPS 316. 5. The installation of self-regulating electric heating cable may be subcontracted by a plumber to another trade.	B ruce
				Note: See 382 appendix for charts and details of the amended IECC tables and requirements.	

				SPS 382.40(5)(bm) Hot-water circulating and temperature maintenance systems.	
				1. Automatic controls, temperature sensors and pumps shall be in a	
				location with access. manual controls shall be in a location with ready	
				access.	
				2. Circulation systems. Hot-water circulation systems shall be provided	
				with a circulation pump. The system return pipe shall be a dedicated	
				return pipe. Gravity and thermo-syphon circulation systems shall be	
				prohibited. Controls for circulating hot water system pumps shall	
				automatically turn off the pump when the water in the circulation	
				is at the desired temperature and when there is not a demand for het	
				is at the desired temperature and when there is not a demand for hot water.	
			OPTION	3. Demand recirculation controls. Demand recirculation water systems	
			1	shall have controls that start the pump upon receiving a signal from	
			1	<u>the</u>	
				action of a user of a fixture or appliance, sensing the presence of a user	
				of a fixture, or sensing the flow of hot or tempered water to a fixture	
				fitting or appliance.	
				4. Heat trace systems. Electric heat trace systems shall comply with IEEE	
				515.1. controls for such systems shall be able to automatically adjust	
				the energy input to the heat tracing to maintain the desired water	
				temperature in the piping in accordance with the times when heated water is used in the occupancy. Heat trace shall be arranged to be	
				turned off automatically when there is not a demand for hot water.	
				5. Controls for hot water storage. The controls on pumps that circulate	
				water between a water heater and a heated-water storage tank shall	
				limit operation of the pump from heating cycle startup to not greater	
				than 5 minutes after the end of the cycle.	
				SPS 382.50(3)(b)4. A hot water distribution system using thermal	
		R evise an		disinfection, as specified in SPS 382.50(3)(b)6.a., shall be under constant	
		already		recirculation to provide continuous hot water at each hot water outlet,	
163	382.50(3)(approved	OPTION	except that uncirculated hot water distribution piping may not exceed 3	B ruce
	В)	code	1	feet in developed length. except for where more restrictive, in accordance	
		change		with IECC C404.5.1 as presented on table C404.5.1 or Per C404.5.2 and	
				<u>C404.5.2.1.</u>	
	<u> </u>				

				Option two: measured changes in SPS 382.40 to IECC C404.	
164	SPS 381.01(XX).	CREATE. Definition	OPTION 2	SPS 381.01(XX). Public lavatory: Is a lavatory located in a public restroom; located outside of a public restroom; a hand wash sink required by Dept. of Agriculture Trade and Consumer Protection (DATCP), Dept. of Health Services (DHS), National Institute of Health (NIH), or United States Dept. of Agriculture (USDA) are considered public lavatory fixtures.	B ruce

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OPTION 2	 SPS 382.40(5)(bm) Hot-water circulating and temperature maintenance systems. 1. Automatic controls, temperature sensors and pumps shall be in a location with access. manual controls shall be in a location with ready access. 2. Circulation systems. Hot-water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe. Gravity and thermo-syphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is not a demand for hot water. 3. Demand recirculation controls. Demand recirculation water systems shall have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance, sensing the presence of a user of a fixture, or sensing the flow of hot or tempered water to a fixture fitting or appliance. 4. Heat trace systems. Electric heat trace systems shall comply with IEEE 515.1. controls for such systems shall be able to automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy. Heat trace shall be arranged to be turned off automatically when there is not a demand for hot water. 5. Controls for hot water storage. The controls on pumps that circulate water between a water heater and a heated-water storage tank shall limit operation of the pump from heating cycle startup to not greater than 5 minutes after the end of the cycle. 			
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				Table-382.40-(X)		
				VOLUME	MAXIMUN	M PIPING LENGTH (feet)	
			NOMINAL PIPE SIZE (inches)	(liquid ounces per foot length)	Public lavatory faucets	Other fixtures and appliances	
			1/4	0.33	* 24	25 **	
			5/16	0.5	+ 16	25 ***	
			3/g	0.75	→ 12.5	25 😜	
			1/2	1.5	4 6	25 🕰	
167		OPTION	5/8	2	1 4	25 ₩	
107		2	3/4	3	0.5 2	25 2+	
		_	7/8	4	0.5	25 🞋	
			1	5	0.5	25 16	
			11/4	8	0.5	25 +	
			11/2	11 18	0.5	25 +	
			2 or larger				
			For St. 1 inch = 25.4 mm, 1 foor = 304.5 mm, 1 liquid ounce = 0.030 L, 1 gallo	Note: Flow rate through 1/4" pi piping shall be not greater than than 1.5 gpm.		.5 gpm. The flow rate through 5/16" h 3/8" piping shall be not greater	
				Table- SPS 382.			
				OUNCES OF WATER PE			
			Nominal Size Copper Type Co (inches) M	pper Type Copper Type CPVC CTS SDR L K 11	CPVC SCH CPVC SCH PE- 40 80 SD		
			³ / ₈ 1.06	0.97 0.84 N/A	1.17 — 0.6		
		OPTION	1/2 1.69	1.55 1.45 1.25	1.89 1.46 1.1	18 1.31 1.18	
168			3/4 3.43	3.22 2.90 2.67	3.38 2.74 2.3		
		2	1 5.81 1 ¹ / ₄ 8.70	5.49 5.17 4.43 8.36 8.09 6.61	5.53 4.57 3.9 9.66 8.24 5.8		
				11.83 11.45 9.22	13.20 11.38 8.0		
				20.58 20.04 15.79	21.88 19.11 13.		
			For SI: 1 foot = 304.8 mm, 1 inch = 25.4	mm, 1 liquid ounce = 0.030 L, 1 oz/ft ² = 305	5.15 g/m ² .	<u> </u>	
			N/A = Not Available.		· ·		
			SPS 382.50(3)(b)4.	A hot water distrib	ution system us	sing thermal	
	Revise an		disinfection, as spe	cified in SPS 382.50(3)(b)6.a., shall l	be under constant	
	already	OPTION	-	vide continuous hot			
169	approved		except that uncircu	lated hot water dist	ribution piping	may not exceed 3	
	code	2	-			ctive, in accordance	
			•			ctive, ili accordance	
	section.		with, in accordance	with SPS 382.40(5)	<u>(b).</u>		

174	SPS 382.37 (2)(G) <u>3.</u>	create	SPS 382.37(2)(g) A supply of water shall be provided to wash down the drain receptor and pad. the water supply shall be: 1. Provided with cross connection control in accordance with s. sps 382.41; and 2. Labeled indicating that the supply is not for drinking purposes. 3. The non-potable supply water for the wash down for the drain receptor shall not be located closer than 50' to a potable water supply unless an alternative is approved by the department under s. SPS 382.20(11). ATCP 79.14(3). STAND ALONE OUTLETS. The operator shall provide a stand–alone outlet that supplies potable water under pressure within 400 feet walking distance from each campsite. No stand– alone outlet for potable water may be located fewer than 50 feet from the outside edge of a sanitary dump station apron unless an alternative is approved by the department under s. ATCP 79.02 (2). For campgrounds or campsites constructed before September 1, 1992, the water supply outlets shall meet the requirements by the rules in effect when the plans and specifications were approved. 79.02(2) addresses petition for variance	PROPOSED LANGUAGE CONSISTENT WITH DATCP ATCP 79.14(3) THIS IS FOR REFERENCE ONLY EXPLANATORY PURPOSES ONLY
. 175	SPS 382.33 (9)(X)X.X	Create	A single residential ventless dryer with a maximum discharge of less than one gpm may discharge into a 2" acw box or standpipe within a dwelling unit. Both the residential acw drain hose and the residential ventless dryer drain hose shall physically fit within the receptor without distortion to either hose.	BRUCE

176	JEFF II PUBL AGEN REQUI	THE VALVE AS DESIGNED, IS ABLE TO RELIEVE THE VESSEL AS REQUIRED, SHOULD NOT A BUSHING BE ALLOWED TO BE INSTALLED IN AN OTHERWISE LARGER THAN NEEDED PORT? SPS 382.40(5)(D)1. ALL PRESSURIZED STORAGE-TYPE WATER HEATERS AND UNFIRED HOT WATER STORAGE TANKS SHALL BE EQUIPPED WITH ONE OR MORE COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVES. THE TEMPERATURE STEAM RATING OF A COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE OR VALVES SHALL EQUAL OR EXCEED THE ENERGY INPUT RATING IN BTU PER HOUR OF THE WATER HEATER. NO SHUT OFF VALVE OR OTHER RESTRICTING DEVICE MAY BE INSTALLED BETWEEN THE WATER HEATER OR STORAGE TANK	THE DEPARTMENT HAS NO ISSUE WITH A BUSHING BEING INSTALLED AS SPECIFIED BY MANUFACTURE OF THE STORAGE TANK AND MATERIAL IS ACCEPTABLE. SEE NO REASON TO CHANGE THE CODE. RON
		ONE OR MORE COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVES. THE TEMPERATURE STEAM RATING OF A COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE OR VALVES SHALL EQUAL OR EXCEED THE ENERGY INPUT RATING IN BTU PER HOUR OF THE WATER HEATER. NO SHUT OFF VALVE OR OTHER RESTRICTING DEVICE	RON
		PublicAgendaReques tForm -2.docx	

177		FROM DNR	PublicAgendaReques tForm DNR.docx	TONY/GLEN
			Code Requirement already provided in SPS 382.34(15)(d). Provide note in reference to NR 812.37 (4)(B)	
			PDF 201504271619.pdf	TONY/GLEN
178	REVISE FOOTNOTE		NOTES: NR 810.15(1). (1) CROSS CONNECTION CONTROL PROGRAM. IN ORDER TO PROTECT THE PUBLIC WATER SUPPLY SYSTEM, THE WATER SUPPLIER FOR EVERY MUNICIPAL WATER SYSTEM SHALL DEVELOP AND IMPLEMENT A COMPREHENSIVE CROSS CONNECTION CONTROL PROGRAM (PARTIAL EXCERPT).	NEED TO CHANGE FOOTNOTE(2) IN 382.40 FROM NR 811.09 TO NR 810.15(1)

179	382.40 (8)(d)3.b.	REVISED	DIS	(d) WATER DISTRIBUTION PIPING. 1. water distribution piping shall be supported in accordance with s. sps 382.60. 2. Provisions shall be made to evacuate all water out of the water distribution system. 3. a. Except where parallel water meters are installed, water distribution piping shall be provided to bypass a water meter 1½ or larger. b. The minimum diameter of water distribution piping serving as a meter bypass shall be equal to, or may be one nominal pipe size smaller than the meter. The meter bypass shall be sized using the capacity of the material of the adjacent water distribution piping immediately downstream of the water meter.		RON AGREE TO ADD NEW LANGAUGE
180	SPS382.40 NOTES	CREATED		Additional Notes: "(NR811.68) does not allow privately looped water lines unless they have a check valve at each tie in location. It's been our code since 1992. You may want to remind DSPS staff to try to catch these upfront since it gets costly to correct them after the fact." NOTE: THE INSTALLATION OF TWO WATER SERVICES OR A PRIVATE WATER MAIN MAY REQUIRE THE INSTALLATION OF A CHECK VALVE. REFER TO CH. NR 811 FOR MORE INFORMATION.	RON.	ADD A NOTE TO SPS 382.40(8)(E)

