



SPS 390 Pool Code Advisory Committee
Room 121C, 1400 East Washington Avenue, Madison
Contact: Greg DiMiceli (608) 266-2112
May 2, 2017

9:00 A.M.

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

AGENDA

OPEN SESSION – CALL TO ORDER – ROLL CALL

A. Adoption of Agenda (1)

B. Approval of Minutes (2)

1. April 4, 2017

C. Department Updates

1. SPS 390 Committee Update Timeline
2. Future Committee Meeting Date(s)

D. Legislative and Administrative Rule Matters – Discussion and Consideration (3-13)

1. Review Pool Code Recommendations and Resolve Matrix Issues
 - a. Department Pool Code Recommendations
 - b. Committee Pool Code Recommendations
2. Discuss and Consider Changes to SPS 390 and 390 Appendix – Public Swimming Pools and Water Attractions including:
 - a. Subchapter I – Administration
 - b. Subchapter II – The Design of Public Swimming Pool and Water Attractions
 - c. Subchapter III – Wading Pools, Whirlpools, Interactive Play Attractions and Cold Soak Pools – Special Requirements
 - d. Subchapter IV – Play Features and Slides
 - e. Subchapter V – Incorporation of Standards

E. Public Comments

F. Adjournment

**SPS 390 POOLS CODE ADVISORY COMMITTEE
MEETING MINUTES
April 4, 2017**

PRESENT: Thomas Carrico, Jason Hammond, Robert Jelinek, Daryl Matzke, Douglas Voegeli

STAFF: Greg DiMiceli, Administrative Rules Coordinator; Tom Braun, Section Chief; Nifty Lynn Dio, Bureau Assistant; and other Department staff

Jason Hammond, Chair, called the meeting to order at 9:03 a.m. A quorum of five (5) members was present.

ADOPTION OF AGENDA

MOTION: Robert Jelinek moved, seconded by Thomas Carrico, to adopt the agenda as published. Motion carried unanimously.

APPROVAL OF MINUTES

MOTION: Douglas Voegeli moved, seconded by Thomas Carrico, to approve the minutes of March 7, 2017 as published. Motion carried unanimously.

LEGISLATIVE AND ADMINISTRATIVE RULE MATTERS – DISCUSSION AND CONSIDERATION

MOTION: Jason Hammond moved, seconded by Robert Jelinek, to accept creation of SPS 390.18 and make “Control Barriers” it’s own section as discussed revised at the meeting today. Motion carried unanimously.

MOTION: Robert Jelinek moved, seconded by Douglas Voegeli, to change section SPS 390.18(4) “Barriers” to ‘Enclosures’. Motion carried unanimously.

MOTION: Jason Hammond moved, seconded by Daryl Matzke, to accept the Committee’s definitions of “Basin Barriers” and “Slide Terminus Control Barriers” in SPS 390.18, as discussed at the meeting today. Motion carried unanimously.

MOTION: Daryl Matzke moved, seconded by Robert Jelinek, to recommend striking SPS 390.16(4)(d) Spray Feature Water. Motion carried unanimously.

MOTION: Thomas Carrico moved, seconded by Jason Hammond, to accept the definitions of Surge or Balance Tank and Feature Tank in SPS 390.03. Motion carried unanimously.

ADJOURNMENT

MOTION: Thomas Carrico moved, seconded by Douglas Voegeli, to adjourn the meeting. Motion carried unanimously.

The meeting adjourned at 2:45 p.m.

Pool Code Issues Rev. 03-07-2017

New	Old	Code	Existing	Suggestions/Revisions	Comments	Status	Cost
1	1	390.02(1)	APPLICABILITY. This chapter applies to the design and construction of all public swimming pools, water attractions and associated slides, and to the reconstruction or alteration of all public swimming pools, water attractions and associated slides.	Document to the appendix. See document	Alterations defined		
2	2	390.02(1)	APPLICABILITY. This chapter applies to the design and construction of all public swimming pools, water attractions and associated slides, and to the reconstruction or alteration of all public swimming pools, water attractions and associated slides.	APPLICABILITY. This chapter applies to the design and construction of all public swimming pools, water attractions and associated slides, and to the reconstruction or alteration of all public swimming pools, water attractions and associated slides. Note: Exclusions include <u>sensory deprivation chambers, inflatable structures and mobile structures</u>	Inflatable structures/Mobile structures Define sensory deprivation & code		
3	3	390.02(4) Note (amended)	Note: Chapter SPS 303 requires the submittal of a petition for variance form (SBD-9890) and a fee, and that an equivalency is established in the petition for variance that meets the intent of the rule being petitioned. Form SBD-9890 is available at no charge from the department at the Safety and	Note: Chapter SPS 303 requires the submittal of a petition for variance form (SBD-9890) and a fee, and that an equivalency is established in the petition for variance that meets the intent of the rule being petitioned. <u>A completed position statement on the petition for variance from the department of health services may be required where</u>	On petitions on life safety issue concerns	Accepted 08/23/16	

New	Old	Code	Existing	Suggestions/Revisions	Comments	Status	Cost
			Buildings Division Web site at http://dsps.wi.gov/SB through links to forms.	<u>applicable</u> . Form SBD-9890 is available at no charge from the department. SPS 303.02(2)(c)			
4	20	390.03(12) (amended)	(12) "Deck" means the unobstructed walking surface immediately adjacent to the pool or water attraction.	Deck" means the unobstructed walking surface immediately adjacent to the pool or water attraction <u>discharging to a deck drain or perimeter areas</u> .	Define deck - deck obstructions - deck limits		
5	4	390.03 (new)	Not addressed	Pool Spectator: one who looks on or watches a swimming pool competition from a designated area or bleacher.	Define spectator	Definition accepted 08/23/2016	
6	6	390.10(1)(c) (new) Re: 390.31(2)(b)	(b) Pool slides, drop slides and waterslides shall be so designed that parts with external surfaces that may come in contact with a person using the slide are assembled, arranged and finished so that they are smooth and continuous with and will not cut, pinch, puncture or cause an abrasion to any person.	390.10(1)(c) Pools and water attractions shall be so designed that external surfaces that may come in contact with a pool patrons are assembled, arranged and finished so that they are smooth and continuous with and will not cut, pinch, puncture or cause an abrasion to any person.	Puncture abrasions	Motioned 08/23/2016	
7	7	390.10(1)(d) (new) Re: 390.31(2)(b)	Not addressed	390.10(1)(d) Pool patrons shall be protected from head trauma on decks to 80 inches above finished floor.	Prevent head trauma	Accepted 08/23/2016	
8	8	390.10(11) (amended)	(10) VANISHING EDGES. A single vanishing edge basin wall occupying a maximum of 50% of the basin perimeter may be included within a water attraction when all of the following are included in the design: (a) The vanishing edge is located adjacent to water that is at least 5 feet deep.	(10) VANISHING EDGES. A single vanishing edge basin wall occupying a maximum of 50% of the basin perimeter may be included within a water attraction when all of the following are included in the design: (a) The vanishing edge is located adjacent to water that is at least 5 feet deep.	Vanishing edge catch The catch ledge in the appendix need to be revised.	Accepted 08/23/2016	

New	Old	Code	Existing	Suggestions/Revisions	Comments	Status	Cost
			(b) A catch ledge, a minimum of 3 feet in width or equivalent protection, is included on the dry side of the basin wall. (c) The catch ledge shall be located outside of the basin within 3 feet vertically from the top of the basin wall. (d) The catch ledge shall be designed to prevent a patron from rolling off the catch ledge. (e) The catch ledge surface shall be constructed of materials that will not cause injury from abrasions or lacerations. Note: See	(b) A catch ledge, a minimum of 3 feet in width or equivalent protection, is included on the dry side of the basin wall. (c) The catch ledge shall be located outside of the basin within 3 feet <u>6 inches</u> vertically from the top of the basin wall. (d) The catch ledge shall be designed to prevent a patron from rolling off the catch ledge. (e) The catch ledge surface shall be constructed of materials that will not cause injury from abrasions or lacerations.			
9	11	390.11	Not addressed	Vinyl liners are to conform to the provisions of 390.11	Vinyl liners	Accepted 08/23/2016	
10	12	390.11(5)	Not addressed	Elevated pool walls. 1. The maximum height of an elevated pool wall is 18 inches. 2. The maximum width of an elevated pool wall 18 inches. 3. The international sign of no walking or standing shall be installed on the horizontal top of the elevated wall a maximum of 25 feet apart 4. Pool stairs shall include a minimum top landing of 20 inches.	Elevated pool walls above deck - line of vision - additional egress - require stair landing - transfer wall 1. Maximum height of wall 19 inches 2. MOTION: maximum width in SPS 390.11(5) from 18 inches to 24 inches and to require the design to be slip resistant and doesn't allow for standing water 4. Change to 12 inches	Accepted 01/31/2017	Minimal
11	16	390.11(5)	390.11(5) WALLS AND BULKHEADS. (a) <i>Basin walls.</i> 1. Basin walls shall be vertical.	WALLS AND BULKHEADS. (a) <i>Basin walls.</i> 1. Basin walls shall be vertical. 2. Except for vanishing edge	A measurement is needed	Accepted 08/23/2016	

New	Old	Code	Existing	Suggestions/Revisions	Comments	Status	Cost
			2. Except for vanishing edge designs, basin walls shall extend above the highest water level at all times during operation.	designs, basin walls shall extend above the highest water level at all times during operation. 3. <u>Interior basin walls shall extend above the highest water level 1 inch at all times during operation</u>			
12	16	390.11(5)(c)	(c) <i>Bulkheads</i> . Bulkheads may be installed only in pools with a department of health services–approved lifeguard staffing plan that addresses supervision of the bulkhead.		Definition bulkhead No changes	Discussed 01/31/2017	
13	15	390.11(5)(b) & (c)	Not addressed	Underwater shelves. 1. The maximum water depth of a underwater shelves are 9 inches. 2. The leading horizontal and vertical plain shall be outlined with slip-resistant contrasting tile or other permanent marking of not less than one inch (25.4 mm) and not greater than two inches (50.8 mm) within one inch of the vertical and horizontal face of an underwater shelf shall be distinguished by a color contrasting with the color of the pool floor. 4. The water depth of a pool at the interface of an underwater shelf is a minimum 30 inches and a maximum of 42 inches. 5. An underwater shelf shall be adjacent to a deck or an island.	Sunning shelves - submersible islands Note to define leading edge: See changes in left Will define and address “Islands” at a later time	Revised and accepted 01/31/2017 *Still need to define ‘Island’	
14	9	390.11(11)	Not addressed	Basin compartments. Basins	Connected pools 1 recirc system	Tabled	

New	Old	Code	Existing	Suggestions/Revisions	Comments	Status	Cost
		(new)		constructed for separate activities and access through bridges, tunnels and openings shall be at least 42 inches wide a minimum of 80 inches in height measured from the pool floor and a maximum water depth of 42 inches. Stepping stones for patron passage is prohibited	(walkways, tunnels, stepping "stones", storm enclosures	08/23/2016 Revised and accepted 01/31/2017	
15	10	390.12	Not addressed	Ramps. 1. Recessed ramps shall not to protrude onto the basin floor. 2. The sidewall edge of all open ramps shall be distinguished by a color contrasting with the color of the ramp and pool floor. 3. All ramp corners shall be rounded to a radius of 1/2 inch. 4. Ramps and transfer walls shall conform to ADAG.	ADA ramps, transfer walls,	Accepted 08/23/2016 Definition motion made 08/23/16	
16	17	390.12(2)(c) (new)	Not addressed	A zero depth entry pool shall be equipped with a trench drain and a surge tank or the pool water level must be automatically controlled. 1. The trench shall extend to within 3 feet of the pool sidewalls. 2. The grate opening of a zero depth entry shall be ½ inch or less. 3. Areas designated as ADAAG entries are exempt from this provision	0 depth - trench location - autofill - grate opening size Addressing wading pools in a difference section Add 'Trench Drain' definition from MAC	Revised and accepted 01/31/2017	
17	19	390.12(3)(b) 11	11. There shall be at least 3 inches but not more than 6	11. There shall be at least 3 inches but not more than 6 <u>4</u>	Remove/revise		

New	Old	Code	Existing	Suggestions/Revisions	Comments	Status	Cost
		(amended)	inches clearance between the pool wall and the handrail.	inches clearance between the pool wall and the handrail.			
18	5	390.12(6)(b) (amended)	(b) A minimum unobstructed surface equal to that required for a stair under sub. (5) shall be provided in a swimout.	(b) A minimum unobstructed surface equal to that required for a stair under sub. (3) shall be provided in a swimout.	should be (3) not (5)	Accepted 08/23/2016	
19	14	390.13(2)(g) (amended)	(g) Deck areas that do not provide the minimum deck required in pars. (b) to (f) shall be installed so as to permanently prohibit public access from the deck.	(g) Wet deck areas that do not provide the minimum deck required in pars. (b) to (f) shall have . <u>the international sign of no walking or standing shall be installed on the horizontal top of the wall a maximum of 25 feet apart</u> See Motions	Walls exceeding 18” 390.13: change title to “Wet Deck” Merge 19 and 20	Revised and accepted 01/31/2017	
20	22	390.13(2)(h) (amended)	(2) DECKWIDTH. (a) Except as required in pars. (b) to (e), deck shall extend for at least 6 feet from all basins. (g) Deck areas that do not provide the minimum deck required in pars. (b) to (f) shall be installed so as to permanently prohibit public access from the deck.	390.13(2)(g) Wet deck areas that do not provide a minimum deck width of 3 feet shall have a warning marker as listed in 390.18(3) See Motions	Past practice did not allow pools to be greater than 20” from a wall which typically eliminated the use of a round pool in a “square “ corner. 390.13(5)(a)3 was previously used to restrict the distance from a wall to a pool to 20”. The specific code addresses drainage of areas less than 20”, not a distance to a wall. The proposed outdoor whirlpools need to comply with the code reference below, decks with less than the minimum width are to include provisions to permanently prohibit public access. If the width is greater than 20”, a deck drain would be required or the deck sloped to drain away from		

New	Old	Code	Existing	Suggestions/Revisions	Comments	Status	Cost
					the whirlpool.		
21	21	390.13(11) (new)		Deck use. Pool decks are limited to pool patron activities.	deck use	Rejected 01/31/2017	
22	23	390.14(13)(c)3	(c) <i>Suction outlets</i> . 1. Suction system flow through main drains shall be designed to accommodate 100 percent of the circulation flow rate in accordance with all of the following: a. All basins shall be provided with a suction outlet in the lowest point of the basin in the floor or the wall. Note: For main drains installed in diving wells, see Table 390.06–1 b. Where 2 or more drains connect within the circulation system, all drains minus any one in the set shall be designed to collectively convey 100 percent of the circulation flow rate. c. The distance between the bottom of the suction outlet grate and the opening of the suction pipe shall equal or exceed at least 1.5 times the inside diameter of the suction pipe. 2. Suction outlet grates shall comply with at least one of the following requirements: a. A single grate having at least one dimension of length, width, diagonal or diameter that is at	(c) <i>Suction and gravity outlets</i> . 1. Suction system flow through main drains shall be designed to accommodate 100 percent of maximum pump flow rate in accordance with all of the following: a. All basins shall be provided with a suction outlet in the lowest point of the basin in the floor or the wall. Note: For main drains installed in diving wells, see Table 390.06–1 b. Where 2 or more drains connect within the circulation system, all drains minus any one in the set shall be designed to collectively convey 100 percent of the maximum pump flow rate. c. The distance between the bottom of the suction outlet grate and the opening of the suction outlet pipe shall equal or exceed at least 1.5 times the inside diameter of the outlet pipe or as allowed by the grate manufacturer . 2. Suction outlet grates shall comply with at least one of the following requirements: a. A single grate having at least one dimension of length, width,	Address gravity drains	Accepted 03/07/2017	No cost

New	Old	Code	Existing	Suggestions/Revisions	Comments	Status	Cost
			<p>least 36 inches.</p> <p>b. Two or more grates of any size separated from other suction outlets by at least 3 feet.</p> <p>3. Suction systems shall be designed so that the maximum flow rates are not exceeded under operating conditions. 4. Suction grates and covers shall be listed as conforming to ASME/ANSI A112.19.8.</p> <p>5. The maximum opening of any suction grate shall prevent the passage of a ½-inch sphere.</p>	<p>diagonal or diameter that is at least 36 inches.</p> <p>b. Two or more grates of any size separated from other suction outlets by at least 3 feet measured center to center of grates.</p> <p>3. Suction systems shall be designed so that the maximum flow rates are not exceeded under operating conditions.</p> <p>4. Suction Outlet grates and covers shall be listed as conforming to ASME/ANSI A112.19.8.</p> <p>5. The maximum opening of any suction grate shall prevent the passage of a ½-inch sphere.</p>			
23	24	390.14(14) (new)	Not addressed	<p>#. An exterior premanufactured surge tank or similar device shall not be located within 5 feet of a building or any portion of a building; 10 feet of water service; 2 feet of a lot line and 10 feet of a clearwater cistern.</p> <p>An exterior premanufactured surge tank or similar device shall not be located within 10 feet of the high water mark of a lake, stream, pond or flowage.</p> <p>#. Reference to SPS 384.25(8) Surge tanks or similar devices shall comply with applicable provisions of SPS 384.25(2), (3), (4), (7)(h), and (8).</p>	<p>Surge tank label w/warning construction connections locations</p> <p>Add reference to SPS 384 in front of Surge tanks</p> <p>Define Surge Tank</p>	Motion to accept failed 03/07/2017	+200%

24	25	390.16(6)(a)	(6) EQUIPMENT ROOM OR ENCLOSURE. (a) An equipment room or equipment enclosure shall be provided to serve all public swimming pools and water attractions.	(6) EQUIPMENT ROOM OR ENCLOSURE. (a) An equipment room or equipment enclosure shall be provided to serve all public swimming pools and water attractions. <u>An equipment enclosure shall protect the pool circulation, heating and sanitizing equipment from public patron access.</u>	Define enclosure From MAHC: “Enclosure” means an uninterrupted constructed feature or obstacle used to surround and secure an area that is intended to deter or effectively prevent unpermitted, uncontrolled, and unfettered access. It is designed to resist climbing and to prevent passage through it and under it. Enclosure can apply to aquatic facilities or aquatic venues. Committee: Reference SPS 390.18(4) Barrier at least five feet in height ADD SPS 390.16, 390.17 and 390.18 to table for review and discussion	Accepted 03/07/2017	
25	26	390.17(2)(d)	(d) The automatic controller shall be electrically interlocked with the circulation pump control circuit.	The chemical feed pump or booster pump shall be electrically interlocked with the circulation pump control circuit	Interlock w/new technology Sanitizer (acid, chlorine) ADD: placement of sample streams for pool chemical control systems to table for review and discussion	Accepted 03/07/2017	
26	28	390.18(3)(f) (new)		(f) “No walking or standing” prohibition markers shall include a graphic symbol. (g) “No walking or standing” text of minimum one inch lettering and the “No walking or standing” symbol shall be clearly visible and of a contrasting color to that of the marker background.	Areas of less than required min deck need to be marked See 390.13(2)(h) Move/add this section to 390.13(2)(h): In lieu of a barrier you may include a graphic symbol with text Walking or standing prohibition markers may be substituted for a barrier	Accepted 03/07/2017	

					ADD: Removing requirement for four inch letters that say NO DIVING – to table for review and discussion		
27	27	390.18(4)(i) (new)	Not addressed	Control barriers. Barriers intended to restrict pool patron access not within a pool basin shall be permanent. The barrier shall be water resistant and easily cleanable. The barrier shall extend a minimum of 36 inches above the floor at the post or anchor point with a second horizontal member approximately halfway between the top and the floor or other means to prevent access.	Define interior barriers Will be under ‘Barriers’ Barrier reference: SPS 390.13(3)(b) and ‘Barrier Section’	Accepted with revisions 04/04/2017	
28	18	390.23 (new)	Not addressed	Therapy pools. Fiberglass exemptions 1. Handrails may be installed within the pool basin used for exercise for elderly and individuals with special needs. 2.	Exercise pools Non-therapy Hand rails at basin wall	No motion made 04/04/2017	
29	NEW	?? Future Item – Definition of “Adjacent”					
					From #27: Bring back to committee next meeting. ADD: Inflatable fltable floats to table to review		
30	New	390.18(new)		Basin Barriers: Barriers within a pool basin restricting patron access shall be permanent. The barrier shall be water resistant and easily cleanable. The barrier shall not		Accepted 04/04/2017	

				<p>have openings greater than 4 inches in width. Barrier shall not restrict resurculation flow.</p> <p>Slide Terminus Control Barriers: If a terminus control barrier is installed, it may be a 36 inch rope and post, with a second horizontal member approximately halfway between the top and the floor or other means to prevent access.</p>			
		390.13(7) Joints	Matzke: 04/04/2017				No action taken 04/04/2017
		390.14		Single volley ball or basketball hoop			
			Surge Tanks – Discussion	<p>RENAME SPS 390.14(13) Inlets, Outlets and Skimming Systems</p> <p>(new) e. Surge and Balance Tanks (1)<insert SPS 390.14(13)(d)10 language> (2) Slide and water features supply cannot be drawn directly from an untreated surge or balance tank</p>	<p>Add to SPS 390.03 Definitions Surge or Balance Tank is a component of a system to absorb and equalize water displaced by bather load</p> <p>Feature Tank: Reservoir used to supply water attractions where water is filtered and chemically treated</p>		Added for discussion 04/04/2017
		390.16(4)(d)		Strike 360.16(4)(d)			Motion to strike carried 04/04/2017