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**SPS 390 Pool Code Advisory Committee**  
**Room 121C, 1400 East Washington Avenue, Madison**  
**Contact: Sandra Cleveland (608) 266-0797**  
**November 1, 2016**

**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 (2-3)**

1. September 20, 2016

**C. Department Updates**

**D. Legislative and Administrative Rule Matters – Discussion and Consideration (4-13)**

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

**E. Public Comments**

**F. Adjournment**

**SPS 390 POOLS CODE ADVISORY COMMITTEE  
MEETING MINUTES  
September 20, 2016**

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

**STAFF:** Sandy Cleveland, Administrative Rules Coordinator; Tom Braun, Section Chief; Glen Jones, Plumbing Plan Reviewer; 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:** Thomas Carrico moved, seconded by Douglas Voegeli, to adopt the agenda as published. Motion carried unanimously.

**APPROVAL OF MINUTES**

**MOTION:** Thomas Carrico moved, seconded by Daryl Matzke, to approve the minutes of July 12, 2016 as published. Motion carried unanimously.

**MOTION:** Thomas Carrico moved, seconded by Douglas Voegeli, to approve the minutes of August 23, 2016 as published. Motion carried unanimously.

**LEGISLATIVE AND ADMINISTRATIVE RULE MATTERS**

**Continue Review of Pool Code Recommendations**

**MOTION:** Daryl Matzke moved, seconded by Douglas Voegeli, that the following definitions be incorporated to 390.03:

- “Deck” means surface areas serving the swimming pool and/or water attraction, including the dry deck, wet deck, and pool deck.
  - “Dry Deck” means all pedestrian surface areas within the swimming pool and/or water attraction enclosure not subject to frequent splashing or constant wet foot traffic. The dry deck is not a wet deck or pool deck, which connect the pool to adjacent amenities, entrances, and exits. Landscape areas are not included in this definition.
  - “Wet Deck” means the hardscape surface area immediately adjacent to the edge of the swimming pool and/or water attraction, also known as the “Perimeter deck” area as defined in 390.13(2).
  - “Pool Deck” means surface areas serving the swimming pool and/or water attraction, beyond the wet deck, which is expected to be regularly trafficked and made wet by bathers.

Motion carried unanimously.

**MOTION:** Jason Hammond moved, seconded by Robert Jelinek, that 390.13(2)(g) be modified to read “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)”. Motion carried unanimously.

**MOTION:** Daryl Matzke moved, seconded by Robert Jelinek, to create a definition of “Peninsula” to be incorporated to 390.03 that reads “Peninsula means a structural projection greater than

18 inches in width into a pool providing separation within the body of water, and not subject to minimum deck width requirements.” Motion carried unanimously.

**MOTION:** Jason Hammond moved, seconded by Daryl Matzke, to create language to be included at 390.13(2) to read “Peninsulas greater than 18 inches but less than 36 inches in width shall have a warning marker as listed in 390.18(3).” Motion carried unanimously.

**MOTION:** Jason Hammond moved, seconded by Robert Jelinek, to create language to be included at 390.13(2) to read “Interior walls and common walls less than 18 inches in width shall not be considered a part of the deck.” Motion carried unanimously.

### **ADJOURNMENT**

**MOTION:** Thomas Carrico moved, seconded by Robert Jelinek, to adjourn the meeting. Motion carried unanimously.

The meeting adjourned at 2:46 p.m.

DRAFT

Pool Code Issues Rev. 10-24-2016

New	Old	Code	Existing	Suggestions/Revisions	Comments	Status
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. <u>Note: Exclusions include sensory deprivation chambers, inflatable structures and mobile structures</u>	Inflatable structures/Mobile structures Define sensory deprivation & code	
3	3	390.02(4) Note (amended)	<b>Note:</b> Chapter <a href="#">SPS 303</a> 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	<b>Note:</b> Chapter <a href="#">SPS 303</a> 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</u>	On petitions on life safety issue concerns	Accepted 08/23/16

New	Old	Code	Existing	Suggestions/Revisions	Comments	Status
			being petitioned. Form SBD-9890 is available at no charge from the department at the Safety and Buildings Division Web site at <a href="http://dsps.wi.gov/SB">http://dsps.wi.gov/SB</a> through links to forms.	<u>completed position statement on the petition for variance from the department of health services may be required where applicable.</u> Form SBD-9890 is available at no charge from the department. SPS 303.02(2)(c)		
4	20	390.03(12) (amended)	<b>(12)</b> “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)	<b>(10)</b> VANISHING EDGES. A single vanishing edge basin wall occupying a maximum of	<b>(10)</b> VANISHING EDGES. A single vanishing edge basin wall occupying a maximum of	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
			<p>50% of the basin perimeter may be included within a water attraction when all of the following are included in the design:</p> <p>(a) The vanishing edge is located adjacent to water that is at least 5 feet deep.</p> <p>(b) A catch ledge, a minimum of 3 feet in width or equivalent protection, is included on the dry side of the basin wall.</p> <p>(c) The catch ledge shall be located outside of the basin within 3 feet vertically from the top of the basin wall.</p> <p>(d) The catch ledge shall be designed to prevent a patron from rolling off the catch ledge.</p> <p>(e) The catch ledge surface shall be constructed of materials that will not cause injury from abrasions or lacerations.</p> <p><b>Note:</b> See</p>	<p>50% of the basin perimeter may be included within a water attraction when all of the following are included in the design:</p> <p>(a) The vanishing edge is located adjacent to water that is at least 5 feet deep.</p> <p>(b) A catch ledge, a minimum of 3 feet in width or equivalent protection, is included on the dry side of the basin wall.</p> <p>(c) The catch ledge shall be located outside of the basin within <del>3 feet</del> <u>6 inches</u> vertically from the top of the basin wall.</p> <p>(d) The catch ledge shall be designed to prevent a patron from rolling off the catch ledge.</p> <p>(e) The catch ledge surface shall be constructed of materials that will not cause injury from abrasions or lacerations.</p>		
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	<p>Elevated pool walls. 1. The maximum height of an elevated pool wall is 18 inches.</p> <p>2. The maximum width of an elevated pool wall 18 inches.</p> <p>3. The international sign of no walking or standing shall be</p>	<p>Elevated pool walls above deck</p> <ul style="list-style-type: none"> <li>- line of vision</li> <li>- additional egress</li> <li>- require stair landing</li> <li>- transfer wall</li> </ul>	

New	Old	Code	Existing	Suggestions/Revisions	Comments	Status
				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.		
11	16	390.11(5)	<b>390.11(5) WALLS AND BULKHEADS.</b> (a) <i>Basin walls.</i> 1. Basin walls shall be vertical. 2. Except for vanishing edge designs, basin walls shall extend above the highest water level at all times during operation.	<b>WALLS AND BULKHEADS.</b> (a) <i>Basin walls.</i> 1. Basin walls shall be vertical. 2. Except for vanishing edge 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>	A measurement is needed	Accepted 08/23/2016
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	
13	15	390.11(5)(b) & (c)	Not addressed	<b>Sunning shelves.</b> 1. The maximum water depth of a sunning shelf is 9 inches. 2. The leading edge of a sunning shelf shall be distinguished by a color contrasting with the color of the pool floor. 3. The vertical pool wall of a sunning shelf shall be	Sunning shelves - submersible islands	

New	Old	Code	Existing	Suggestions/Revisions	Comments	Status
				<p>distinguished by a color contrasting with the color of the pool floor.</p> <p>4. The water depth of a pool at the interface of a sunning shelf is a minimum 30 inches and a maximum of 42 inches.</p> <p>5. A sunning shelf shall be adjacent to a deck.</p> <p>6. Submersible island type sunning decks are prohibited.</p>		
14	9	390.11(11) (new)	Not addressed	<p>Basin compartments. Basins constructed for separate activities and access through bridges, tunnels and openings shall be at least 5 feet wide, illuminated, minimum of 80 inches in height and a minimum water depth of 30 inches and a maximum of 42 inches. Stepping stones for patron passage is prohibited</p>	Connected pools 1 recirc system (walkways, tunnels, stepping "stones", storm enclosures	Tabled 08/23/2016
15	10	390.12	Not addressed	<p>Ramps. 1. Recessed ramps shall not to protrude onto the basin floor.</p> <p>2. The sidewall edge of all open ramps shall be distinguished by a color contrasting with the color of the ramp and pool floor.</p> <p>3. All ramp corners shall be rounded to a radius of 1/2 inch.</p> <p>4. Ramps and transfer walls shall conform to ADAG.</p>	ADA ramps, transfer walls,	Accepted 08/23/2016 Definition motion made 08/23/16

New	Old	Code	Existing	Suggestions/Revisions	Comments	Status
16	17	390.12(3) (new)	Not addressed	Zero depth entry shall be equipped with return outlet served by a surge tank or a trench where the water level is automatically controlled. 1. The trench shall extend to within 3 inches of the pool sidewalls. 2. The grate opening of a zero depth entry shall be ¼ inch or less.	0 depth - trench location - autofill - grate opening size	
17	19	390.12(3)(b) 11 (amended)	11. There shall be at least 3 inches but not more than 6 inches clearance between the pool wall and the handrail.	11. There shall be at least 3 inches but not more than <del>6</del> 4 inches clearance between the pool wall and the handrail.	Remove/revise	
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) 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. <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"	

New	Old	Code	Existing	Suggestions/Revisions	Comments	Status
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.	<del>390.13(2)(g) Wet Deck</del> areas that do not provide <del>the a</del> minimum <del>deck required in pars. (b) to (f) shall be a maximum of 18 inches and installed so as to permanently prohibit public access from the deck. The</del> <del>are</del> deck width of 3 feet shall have a warning marker as listed in 390.18(£3) <u>See Motions</u>	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 the whirlpool.	
21	21	390.13(11) (new)		Deck use. Pool decks are limited to pool patron activities.	deck use	
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. <b>Note:</b> For main drains installed	(c) <i>Suction and gravity outlets</i> . 1. <del>Suction system</del> 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 <del>suction</del> outlet in the lowest point of the basin in the floor or the wall. <b>Note:</b> For main drains installed	Address gravity drains	

New	Old	Code	Existing	Suggestions/Revisions	Comments	Status
			<p>in diving wells, see Table 390.06-1</p> <p>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.</p> <p>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.</p> <p>2. Suction outlet grates shall comply with at least one of the following requirements:</p> <p>a. A single grate having at least one dimension of length, width, 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.</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</p>	<p>in diving wells, see Table 390.06-1</p> <p>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.</p> <p>c. The distance between the bottom of the <del>suction</del> outlet grate and the opening of the <del>suction</del> outlet pipe shall equal or exceed at least 1.5 times the inside diameter of the suction pipe.</p> <p>2. Suction outlet grates shall comply with at least one of the following requirements:</p> <p>a. A single grate having at least one dimension of length, width, 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.</p> <p>3. Suction systems shall be designed so that the maximum flow rates are not exceeded under operating conditions.</p> <p>4. <del>Suction</del> <u>Outlet</u> grates and covers shall be listed as conforming to ASME/ANSI A112.19.8.</p> <p>5. The maximum opening of</p>		

New	Old	Code	Existing	Suggestions/Revisions	Comments	Status
			any suction grate shall prevent the passage of a ½-inch sphere.	any <del>suction</del> grate shall prevent the passage of a ½-inch sphere.		
23	24	390.14(14) (new)	Not addressed	An exterior surge tank or similar device shall not be located within 5 feet of a building or any portion of a building or swimming pool; 10 feet of water service; 2 feet of a lot line and 10 feet of a clearwater cistern. An exterior surge tank or similar device shall not be located within 10 feet of the high water mark of a lake, stream, pond or flowage. Surge tanks shall comply with applicable provisions of SPS 384.25(2), (3), (4), (7)(h), and (8).	Surge tank label w/warning construction connections locations	
24	25	390.16(6)(a)	<b>(6) EQUIPMENT ROOM.</b> (a) An equipment room or equipment enclosure shall be provided to serve all public swimming pools and water attractions.	<b>(6) EQUIPMENT ROOM.</b> (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 equipment from environmental exposures and patron access.</u>	Define enclosure	
25	26	390.17(2)(d)	(d) The automatic controller shall be electrically interlocked with the circulation pump control circuit.	The automatic controller shall be electrically interlocked with the circulation pump control circuit <u>or equipped with a micro-processor that includes a flow meter sensor.</u>	Interlock w/new technology Sanitizer (acid, chlorine)	

New	Old	Code	Existing	Suggestions/Revisions	Comments	Status
26	28	390.18(f) (new)		(f) "No walking or standing" prohibition markers shall include the international symbol. (g) "No walking or standing" text 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)	
27	27	390.18(4)(i) (new)	Not addressed	Interior barriers. Barriers intended to restrict pool patron access shall be permanent. The barrier shall be water resistant and easily cleanable. The barrier shall extend a minimum of 36 inches above the floor with a minimum of	Define interior barriers	
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	
29	NEW	?? <u>Future Item – Definition of "Adjacent"</u>				