



Proposed Code Modifications

**This document created by the Florida Department of Business and Professional Regulation -
850-487-1824**

WITHOUT COMMENTS

TAC: Swimming Pool

Total Mods for **Swimming Pool** in **Approved as Submitted: 6**

Total Mods for report: 6

Sub Code: Building

SW7014

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Date Submitted	12/31/2015	Section	454...6.5.16.6	Proponent	Centera John
Chapter	4	Affects HVHZ	No	Attachments	No
TAC Recommendation	Approved as Submitted				
Commission Action	Pending Review				

Comments

General Comments No **Alternate Language** No

Related Modifications

Summary of Modification

Eliminates unnecessary and excessive UV requirements for lower risk facilities and specifies use for higher risk facilities

Rationale

UV equipment used in lower risk facilities such as swimming pools, quiet pools, and spas can utilize an NSF#174; 50 tested and certified UV system as a supplement to a properly permitted chlorination system, for purposes of reducing chlorine consumption, lowering chloramine levels, or providing additional#160;disinfection. Under these applications no claim to crypto removal can be made.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

No impact

Impact to building and property owners relative to cost of compliance with code

Reduces costs for approval variances and equipment for lower risk facilities

Impact to industry relative to the cost of compliance with code

reduces cots for approval variances and equipment for lower risk facilities

Impact to small business relative to the cost of compliance with code

No impact

Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public

No impact on health, welfare, and safety of the general public

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

Improves code by making code compliance reasonable for lower risk facility owners by specifying UV compliance criteria for higher risk facilities

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

Does not discriminate

Does not degrade the effectiveness of the code

Does not degrade the code effectiveness

Is the proposed code modification part of a prior code version? No

1st Comment Period History

Proponent	bob vincent	Submitted	2/25/2016	Attachments	No
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SW7014-G1

Comment:

I agree that the new NSF 50-2014 standard for UV disinfection devices is a good certification standard for the supplemental UV devices. Pools listed here with high risk of infectious disease should include spa pools in addition to those mentioned, since numerous disease outbreaks, including fatalities have occurred in FL spa pools. The UV devices certified under NSF 50 have two categories, with one tested for Crypto. sufficiently close to the US EPA criteria that it should be allowed in code.

454.1.6.5.16.6 Ultraviolet (UV) light disinfectant equipment may be used as supplemental water treatment on public pools [and additional treatment on interactive water features (IWFs)] subject to the conditions of this paragraph and manufacturer's specifications. UV is encouraged to be used to eliminate or reduce chlorine-resistant pathogens, especially the protozoan cryptosporidium.

1..UV equipment and electrical components and wiring shall comply with the requirements of the *National Electrical Code* and the manufacturer shall provide a certification of conformance to the jurisdictional building department.

2..UV equipment shall meet UL standards and shall be electrically interlocked with recirculation pump(s) on all pools and with feature pumps(s) on an IWF such that when the UV equipment fails to produce the required dosage as measured by an automated sensor, the feature pump(s) are disabled so the water features do not operate.

3. UV equipment **used in higher risk facilities such interactive water features, wading pools, and activity pools** shall be validated by a capable party that it delivers the required and predicted UV dose at the validated flow, lamp power and water UV transmittance conditions, and has complied with all professional practices summarized in the *USEPA Ultraviolet Disinfectant Guidance Manual dated November 2006*, which is publication number EPA 815-R-06-007 available from the department at [http:// www.floridashealth.org/Environment/ water/swim/index.html](http://www.floridashealth.org/Environment/water/swim/index.html) or at [http:// www.epa.gov/safewater/disinfection/lt2/ pdfs/guideit2_uvguidance.pdf](http://www.epa.gov/safewater/disinfection/lt2/pdfs/guideit2_uvguidance.pdf).

4. UV equipment shall constantly produce a validated dosage of at least 40 mJ/cm^2 (millijoules per square centimeter) at the end of lamp life.

5. The UV equipment shall not be located in a side stream flow and shall be located to treat all water returning to the pool or water features.

Date Submitted	1/1/2016	Section	454.2.6.1	Proponent	Jennifer Hatfield
Chapter	4	Affects HVHZ	No	Attachments	No
TAC Recommendation	Approved as Submitted				
Commission Action	Pending Review				

Comments

General Comments	No	Alternate Language	No
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Related Modifications

7060, 7061, and 6991

Summary of Modification

Updates titles of conformance standards.

Rationale

Updates the NSPI 3 standard reference with the new edition title of ANSI/APSP/ICC 3 and updates the APSP 7 standard name as well. This proposal goes with the reference standard proposal to update these two standards to the latest editions.

Fiscal Impact Statement**Impact to local entity relative to enforcement of code**

None. Updates existing standards to reflect the titles of the latest editions.

Impact to building and property owners relative to cost of compliance with code

None. Updates existing standards to reflect the titles of the latest editions.

Impact to industry relative to the cost of compliance with code

None. Updates existing standards to reflect the titles of the latest editions.

Impact to small business relative to the cost of compliance with code

None. Updates existing standards to reflect the titles of the latest editions.

Requirements**Has a reasonable and substantial connection with the health, safety, and welfare of the general public**

Yes, keeps up with the latest editions of national consensus standards.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

Yes, proposal updates standards to latest edition.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

No, does not discriminate, simply updates standards to latest edition.

Does not degrade the effectiveness of the code

No, does not degrade the effectiveness of the code. Change updates standards to latest edition.

Is the proposed code modification part of a prior code version? No

454.2.6.1 Conformance standard. Design, construction and workmanship shall be in conformity with the requirements of ANSI/APSP/ICCNSPI 3, ANSI/APSP/ICC 4, ANSI/ APSP/ICC5, ANSI/APSP/ICC 6, and ANSI/APSP/ICC 7.

454.2.6.2 Required equipment. Every swimming pool shall be equipped complete with approved mechanical equipment consisting of filter, pump, piping valves and component parts.

Exception: Pools with a supply of fresh water equivalent to the volume of the pool in the specified turnover time will be allowed.

454.2.6.3 Water velocity. Pool piping shall be designed so the water velocity will not exceed 10 feet per second (mm/s) for pressure piping and 8 feet per second (mm/s) for suction piping, except that the water velocity shall not exceed 8 feet per second (3048 mm/s) in copper tubing. Main suction outlet velocity must comply with ANSI/APSP/ICC 7.

Exception: Jet inlet fittings shall not be deemed subject to this requirement.

454.2.6.4 Piping to heater. Water flow through the heater, any bypass plumbing installed, any back-siphoning protection, and the use of heat sinks shall be done in accordance with the manufacturer's recommendations.

454.2.6.5 Piping installation. All piping materials shall be installed in strict accordance with the manufacturer's installation standards.

Exception: Primer and glue on exposed above-ground piping not required to be colored.

454.2.6.6 Entrapment protection for suction outlets shall be installed in accordance with requirements of ANSI/APSP 7/ICC.

Date Submitted	1/1/2016	Section	454.1.9.6.3	Proponent	Jennifer Hatfield
Chapter	4	Affects HVHZ	No	Attachments	No
TAC Recommendation	Approved as Submitted				
Commission Action	Pending Review				

Comments

General Comments No **Alternate Language** No

Related Modifications**Summary of Modification**

Inserts the word "feet"

Rationale

Addresses a typo in the 2010 Code that said 7 inches, the Supplement online only said "7" therefore, this code change simply adds in "feet" to make the clarification.

Fiscal Impact Statement**Impact to local entity relative to enforcement of code**

None

Impact to building and property owners relative to cost of compliance with code

None

Impact to industry relative to the cost of compliance with code

None

Impact to small business relative to the cost of compliance with code

None

Requirements**Has a reasonable and substantial connection with the health, safety, and welfare of the general public**

It does not.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

Yes by making clarification.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

It does not discriminate.

Does not degrade the effectiveness of the code

It does not degrade the effectiveness of the code.

Is the proposed code modification part of a prior code version? No

454.1.9.6.3 The pool deck may slope toward the pool for no more than 7 feet (2133 mm), as measured from the overflow system grate outward. Beyond this area the deck shall slope away from the pool in accordance with Section 454.1.2.2.3.

Date Submitted	1/1/2016	Section	35	Proponent	Jennifer Hatfield
Chapter	35	Affects HVHZ	No	Attachments	No
TAC Recommendation	Approved as Submitted				
Commission Action	Pending Review				

Comments

General Comments No **Alternate Language** No

Related Modifications

#6991

Summary of Modification

Updates the APSP-3 and APSP-7 referenced standards to the new editions, as well as corrects title of APSP-6 standard.

Rationale

Updates nationally recognized consensus standards to the latest editions available, along with correcting the title of another standard.

Fiscal Impact Statement**Impact to local entity relative to enforcement of code**

None. Updates existing standards to latest editions.

Impact to building and property owners relative to cost of compliance with code

None. Updates existing standards to latest editions.

Impact to industry relative to the cost of compliance with code

None. Updates existing standards to latest editions.

Impact to small business relative to the cost of compliance with code

None. Updates existing standards to latest editions.

Requirements**Has a reasonable and substantial connection with the health, safety, and welfare of the general public**

Yes, keeps up with the latest editions of national consensus standards.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

Yes, keeps up with the latest editions of national consensus standards.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

No, does not discriminate, simply updates standards to latest edition.

Does not degrade the effectiveness of the code

No, does not degrade the effectiveness of the code. Change updates standards to latest edition.

Is the proposed code modification part of a prior code version? No

APSP Association of Pool and Spa Professionals

2111 Eisenhower Avenue, Suite 500

Alexandria, VA 22314

Standard reference number	Title	Referenced in code section number
ANSI/APSP/ICCNSPI 3—1499	American National Standard for Permanently Installed Residential Spas and Swim Spas.....	454.2.6.1
ANSI/APSP/ICC 4—12	American National Standard for Aboveground /Onground Residential Swimming Pools	454.2.6.1
ANSI/APSP/ICC 5-11	American National Standard for Residential Inground Swimming Pools.....	454.2.6.1
ANSI/APSP/ICC 6—13	American National Standard for Residential Portable Spas and Swim Spas.....	454.2.6.1
ANSI/APSP/ICC 7—13	American National Standard for Suction Entrapment Avoidance in Swimming Pools, Wading Pools, Spas, Hot Tubs, and Catch Basins.....	454.2.6.1, 454.2.6.3, 454.2.6.6;
ANSI/APSP 16—11	American National Standard for Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, and Hot Tubs.....	454.1.6. 5.10.2

SW7061

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Date Submitted	1/1/2016	Section	4501.6.1	Proponent	Jennifer Hatfield
Chapter	45	Affects HVHZ	No	Attachments	No
TAC Recommendation	Approved as Submitted				
Commission Action	Pending Review				

Comments

General Comments	No	Alternate Language	No
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Related Modifications

6991, 7060

Summary of Modification

Updates titles of conformance standards.

Rationale

Updates the NSPI 3 standard reference with the new edition title of ANSI/APSP/ICC 3 and updates the APSP 7 standard name as well. This proposal goes with the reference standard proposal to update these two standards to the latest editions.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

None. Updates existing standards to reflect the titles of the latest editions.

Impact to building and property owners relative to cost of compliance with code

None. Updates existing standards to reflect the titles of the latest editions.

Impact to industry relative to the cost of compliance with code

None. Updates existing standards to reflect the titles of the latest editions.

Impact to small business relative to the cost of compliance with code

None. Updates existing standards to reflect the titles of the latest editions.

Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public

Yes, keeps up with the latest editions of national consensus standards.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

Yes, proposal updates standards to latest edition.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

No, does not discriminate, simply updates standards to latest edition.

Does not degrade the effectiveness of the code

No, does not degrade the effectiveness of the code. Change updates standards to latest edition.

Is the proposed code modification part of a prior code version? No

R4501.6.1 Conformance standard. Design, construction and workmanship shall be in conformity with the requirements of ANSI/APSP/ICCNSPI 3; ANSI/APSP/ICC 4; ANSI/ APSP/ICC 5; ANSI/APSP/ICC 6; and ANSI/APSP/ICC 7.

R4501.6.2 Required equipment. Every swimming pool shall be equipped complete with approved mechanical equipment consisting of filter, pump, piping valves and component parts.

Exception: Pools with a supply of fresh water equivalent to the volume of the pool in the specified turnover time will be allowed.

R4501.6.3 Water velocity. Pool piping shall be designed so the water velocity will not exceed 10 feet per second (3048 mm/s) for pressure piping and 8 feet per second (2438 mm/s) for suction piping, except that the water velocity shall not exceed 8 feet per second (2438 mm/s) in copper tubing. Main suction outlet velocity must comply with ANSI/APSP/ICC 7.

Exception: Jet inlet fittings shall not be deemed subject to this requirement.

R4501.6.4 Piping to heater. Water flow through the heater, any bypass plumbing installed, any back-siphoning protection, and the use of heat sinks shall be done in accordance with the manufacturer's recommendations.

R4501.6.5 Piping installation. All piping materials shall be installed in strict accordance with the manufacturer's installation standards.

Exception: Primer and glue on exposed aboveground piping not required to be colored.

R4501.6.6 Entrapment protection. Entrapment protection for suction outlets shall be installed in accordance with requirements of ANSI/APSP/ICC 7.

Date Submitted	1/1/2016	Section	46	Proponent	Jennifer Hatfield
Chapter	2712	Affects HVHZ	No	Attachments	No
TAC Recommendation	Approved as Submitted				
Commission Action	Pending Review				

Comments

General Comments No **Alternate Language** No

Related Modifications

Submitting same for Chapter 35-Reference Standards of Building

Summary of Modification

Updates the APSP-3 and APSP-7 referenced standards to the new editions, as well as corrects title of APSP-6 standard.

Rationale

Updates nationally recognized consensus standards to the latest editions available, along with correcting the title of another standard.

Fiscal Impact Statement**Impact to local entity relative to enforcement of code**

None. Updates existing standards to latest editions.

Impact to building and property owners relative to cost of compliance with code

None. Updates existing standards to latest editions.

Impact to industry relative to the cost of compliance with code

None. Updates existing standards to latest editions.

Impact to small business relative to the cost of compliance with code

None. Updates existing standards to latest editions.

Requirements**Has a reasonable and substantial connection with the health, safety, and welfare of the general public**

Yes, keeps up with the latest editions of national consensus standards.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

Yes, keeps up with the latest editions of national consensus standards.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

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Does not degrade the effectiveness of the code

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Is the proposed code modification part of a prior code version? No

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Standard Referenced in code

reference number Title section number

ANSI/ <u>APSP/ICCNSPI 3—1499</u>	American National Standard for Permanently Installed Residential Spas <u>and Swim Spas</u>R4501.6.1
ANSI/APSP/ICC 4—12	American National Standard for Aboveground /Onground Residential Swimming Pools.....R4501.6.1
ANSI/APSP/ICC 5—11	American National Standard for Residential Inground Swimming Pools.....R4501.6.1
ANSI/APSP/ICC 6—13	American National Standard for <u>Residential</u> <u>Portable Spas and Swim Spas</u> R4501.6.1
ANSI/APSP/ICC 7— <u>1306</u>	American National Standard for Suction Entrapment Avoidance In Swimming Pools, Wading Pools, Spas, Hot Tubs, and Catch Basins.....R4501.6.1, R4501.6.3, R4501.6.6