



Swimming Pool

Proposed Code Modifications

Glitch Modifications

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

Total Mods for **Swimming Pool** in **Approved as Modified**: 1

Total Mods for report: 8

SW6261

Date Submitted 4/30/2013	Section 404.2	Proponent Jennifer Hatfield
Chapter 4	Affects HVHZ No	Attachments No
TAC Recommendation Approved as Modified		
Commission Action Pending Review		

Related Modifications

Mod dealing with section R403.9.1.2

Summary of Modification

Provides clarity that geothermal pool heat pumps are not required to meet AHRI 1160. The performance of these units has no relationship to air temperature and currently there is no AHRI standard that applies to geothermal swimming pool heat pumps.

Rationale

Provides clarity that geothermal pool heat pumps are not required to meet a minimum 4.0 C.O.P. at the AHRI 1160 Low Temperature test point of 50°F. The performance of these units has no relationship to air temperature; therefore, the AHRI requirement is inappropriate for the geothermal type of heat pump. There is no AHRI standard that applies to geothermal swimming pool heat pumps at this time. It is a generally accepted fact that geothermal heat pumps are more efficient than air source heat pumps and therefore this proposal is not lessening efficiency.

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

Could lessen any costs associated with a property owner choosing this type of product, but then having to document why this product will not have documentation showing it meets the AHRI 1160 standard.

Impact to industry relative to the cost of compliance with code

Could lessen any costs associated with having to document why this product will not have documentation showing it meets the AHRI 1160 standard.

Requirements

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

N/A

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

Strengthens code by clarifying a very efficient product is not required to meet a standard that was never intended for such product.

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

No

Does not degrade the effectiveness of the code

No

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

- (a.) Conflicts within the updated code;
- (b.) Conflicts between the updated code and the Florida Fire Prevention Code adopted pursuant to chapter 633;
- (c.) Unintended results from the integration of previously adopted Florida-specific amendments with the model code;
- (d.) Equivalency of standards;
- (e.) Changes to or inconsistencies with federal or state law;
- (f.) Adoption of an updated edition of the National Electrical Code if the commission finds that delay of implementing the updated edition causes undue hardship to stakeholders or otherwise threatens the public health, safety, and welfare.

TABLE C404.2
MINIMUM PERFORMANCE OF WATER-HEATING EQUIPMENT

Equipment Type	Size Category (input)	Subcategory or Rating Condition	Performance Required ¹	Test Procedure ^{a,b}
Pool heaters, Gas and Oil	All	--	78% E _t	ASHRAE 146
Heat pump pool heaters	All	---	4.0 COP <u>At low air temperature</u>	AHRI 1160 ^{d,e}

For SI: 1 Btu/h=.2931W, °C=[(°F) – 32]/1.8

a - c [No change]

^dTest report from independent laboratory is required to verify procedure compliance.

^eGeothermal swimming pool heat pumps are not required to meet this standard.

C404.7.3 Covers. Heated swimming pools and inground permanently installed spas shall be equipped provided with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.

Exception: A vapor-retardant cover is not required for Outdoor pools deriving over 70 percent of the energy for heating from site-recovered energy, such as a heat pump or solar energy source computed over an operating season.”

TABLE C404.2

MINIMUM PERFORMANCE OF WATER-HEATING EQUIPMENT

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Heat pump pool heaters	All	---	4.0 COP <u>At low air temperature</u>	AHRI 1160 ^{d,e}

For SI: 1 Btu/h=.2931W, °C=[(°F) – 32]/1.8

a - c [No change]

^dTest report from independent laboratory is required to verify procedure compliance.

^eGeothermal swimming pool heat pumps are not required to meet this standard.

Total Mods for **Swimming Pool** in **Approved as Submitted**: 7

Total Mods for report: 8

SW6272

Date Submitted 5/1/2013	Section 454.1.3.1.9	Proponent Jennifer Hatfield
Chapter 4	Affects HVHZ No	Attachments No
TAC Recommendation Approved as Submitted		
Commission Action Pending Review		

Related Modifications**Summary of Modification**

Adds (s) to door, correcting the sentence. No substantive change.

Rationale

Provides the plural door(s) to correct how the sentence should read.

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

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

N/A

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

Fixes a typo

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

No

Does not degrade the effectiveness of the code

No

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

- (a.) Conflicts within the updated code;
- (b.) Conflicts between the updated code and the Florida Fire Prevention Code adopted pursuant to chapter 633;
- (c.) Unintended results from the integration of previously adopted Florida-specific amendments with the model code;
- (d.) Equivalency of standards;
- (e.) Changes to or inconsistencies with federal or state law;
- (f.) Adoption of an updated edition of the National Electrical Code if the commission finds that delay of implementing the updated edition causes undue hardship to stakeholders or otherwise threatens the public health, safety, and welfare.

454.1.3.1.9 All public pools shall be surrounded by a minimum 48 inch (1219 mm) high fence or other approved substantial barrier. The fence shall be continuous around the perimeter of the pool area that is not otherwise blocked or obstructed by adjacent buildings or structures and shall adjoin with itself or abut to the adjacent members. Access through the barrier or fence from dwelling units, such as homes, apartments, motel rooms and hotel rooms, shall be through self-closing, self-latching lockable gates of 48 inch (1219 mm) minimal height from the floor or ground with the latch located a minimum of 54 inches (1372 mm) from the bottom of the gate or at least 3 inches (76 mm) below the top of the gate on the pool side. If the self-closing, self-latching gate is also self-locking and is operated by a key lock, electronic opener or integral combination lock, then the operable parts of such locks or openers shall be 34 inches minimum (864 mm) and 48 inches maximum (1219 mm) above the finished floor or ground. Doored access points from public rooms such as lobbies or club houses need not be through gates if the door(s) meet the same self closing, self latching requirements as a gate. Gates shall open outward away from the pool area. A latched, lockable gate shall be placed in the fence within ten feet (3048 mm) of the closest point between the pool and the equipment area for service access.

Date Submitted	4/30/2013	Section	454.2.6.1	Proponent	Jennifer Hatfield
Chapter	4	Affects HVHZ	No	Attachments	No
TAC Recommendation	Approved as Submitted				
Commission Action	Pending Review				

Related Modifications

Standard update proposals

Summary of Modification

Corrects standard references to match the appropriate name, as standards have been updated NSPI has been replaced with APSP.

Rationale

Accurately reflects the titles of the standards to reflect the ones that have been updated from NSPI to APSP/ICC standards.

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

Ensures what is in the code matches the title of the standard.

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

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

N/A

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

Yes

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

No

Does not degrade the effectiveness of the code

No

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

- (a.) Conflicts within the updated code;
- (b.) Conflicts between the updated code and the Florida Fire Prevention Code adopted pursuant to chapter 633;
- (c.) Unintended results from the integration of previously adopted Florida-specific amendments with the model code;
- (d.) Equivalency of standards;
- (e.) Changes to or inconsistencies with federal or state law;
- (f.) Adoption of an updated edition of the National Electrical Code if the commission finds that delay of implementing the updated edition causes undue hardship to stakeholders or otherwise threatens the public health, safety, and welfare.

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

Date Submitted	4/30/2013	Section	35	Proponent	Jennifer Hatfield
Chapter	35	Affects HVHZ	No	Attachments	No
TAC Recommendation	Approved as Submitted				
Commission Action	Pending Review				

Related Modifications

SW 6264, SW 6267, & SW 6266

Summary of Modification

Corrects standard references to match date/edition/name information as published.

Rationale

Accurately reflects the titles of the standards to reflect the ones that have been updated to ANSI/APSP/ICC standards, updates the editions for APSP 6 and fixes a Building Code section reference under APSP-7.

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

Ensures what is in the code matches the title/edition/date of standard.

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

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

N/A

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

Yes

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

No

Does not degrade the effectiveness of the code

No

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

- (a.) Conflicts within the updated code;
- (b.) Conflicts between the updated code and the Florida Fire Prevention Code adopted pursuant to chapter 633;
- (c.) Unintended results from the integration of previously adopted Florida-specific amendments with the model code;
- (d.) Equivalency of standards;
- (e.) Changes to or inconsistencies with federal or state law;
- (f.) Adoption of an updated edition of the National Electrical Code if the commission finds that delay of implementing the updated edition causes undue hardship to stakeholders or otherwise threatens the public health, safety, and welfare.

APSP

Association of Pool and Spa Professionals

2111 Eisenhower Avenue

Alexandria, VA 22314

Standard in code		Referenced
reference number	Title	section
number		

ANSI/NSPI 3—99 American National Standard for Permanently Installed Residential

Spas 454.2.6.1

ANSI/APSP/ICC 4—12 American National Standard for Aboveground/On

ground

Residential Swimming Pools.....

454.2.6.1

ANSI/APSP/ICC 5-11 American National Standard for Residential In ground

Swimming Pools

..... 454.2.6.1

ANSI/APSP/ICC 6—132 American National Standard for Portable Spas.

454.2.6.1

ANSI/APSP 7—06 American National Standard for Suction Entrapment Avoidance in

Swimming Pools, Wading Pools, Spas, Hot Tubs, and Catch

3109.5

454.2.6.3, 4354.2.6.6

Basins.....

.454.2.6.1,

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...

Sub Code: Energy Conservation

SW6262

Date Submitted	4/30/2013	Section	403.9.1.2	Proponent	Jennifer Hatfield
Chapter	4	Affects HVHZ	No	Attachments	No
TAC Recommendation	Approved as Submitted				
Commission Action	Pending Review				

Related Modifications

Mod 6261 dealing with Table C404.2

Summary of Modification

Provides clarity that geothermal pool heat pumps are not required to meet AHRI 1160. The performance of these units has no relationship to air temperature and currently there is no AHRI standard that applies to geothermal swimming pool heat pumps.

Rationale

Provides clarity that geothermal pool heat pumps are not required to meet a minimum 4.0 C.O.P. at the AHRI 1160 Low Temperature test point of 50°F. The performance of these units has no relationship to air temperature; therefore, the AHRI requirement is inappropriate for the geothermal type of heat pump. There is no AHRI standard that applies to geothermal swimming pool heat pumps at this time. It is a generally accepted fact that geothermal heat pumps are more efficient than air source heat pumps and therefore this proposal is not lessening efficiency.

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

Could lessen any costs associated with a property owner choosing this type of product, but then having to document why this product will not have documentation showing it meets the AHRI 1160 standard.

Impact to industry relative to the cost of compliance with code

Could lessen any costs associated with having to document why this product will not have documentation showing it meets the AHRI 1160 standard.

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

N/A

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

Strengthens code by clarifying a very efficient product is not required to meet a standard that was never intended for such product.

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

No

Does not degrade the effectiveness of the code

No

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

- (a.) Conflicts within the updated code;
- (b.) Conflicts between the updated code and the Florida Fire Prevention Code adopted pursuant to chapter 633;
- (c.) Unintended results from the integration of previously adopted Florida-specific amendments with the model code;
- (d.) Equivalency of standards;
- (e.) Changes to or inconsistencies with federal or state law;
- (f.) Adoption of an updated edition of the National Electrical Code if the commission finds that delay of implementing the updated edition causes undue hardship to stakeholders or otherwise threatens the public health, safety, and welfare.

R403.9.1.2 Heat pump pool heaters. Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with ARI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.

Date Submitted	4/30/2013	Section	5	Proponent	Jennifer Hatfield
Chapter	5	Affects HVHZ	No	Attachments	No
TAC Recommendation	Approved as Submitted				
Commission Action	Pending Review				

Related Modifications**Summary of Modification**

Corrects standard reference to match date/edition/name information as published.

Rationale

Accurately reflects the titles of both standards to reflect they are ANSI/APSP/ICC standards and updates the APSP-15 standard to show it was published in 2013 as APSP-15a....for the Addenda A approved on January 9, 2013 by ANSI. Didn't appear that the "including Addenda A..." was necessary since the published version notes the Addenda A with the small a next to the 15. If needed, would still need to be updated to accurately reflect the January 9 date.

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

Ensures what is in the code matches the title/edition/date of standard.

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

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

N/A

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

Yes

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

No

Does not degrade the effectiveness of the code

No

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

- (a.) Conflicts within the updated code;
- (b.) Conflicts between the updated code and the Florida Fire Prevention Code adopted pursuant to chapter 633;
- (c.) Unintended results from the integration of previously adopted Florida-specific amendments with the model code;
- (d.) Equivalency of standards;
- (e.) Changes to or inconsistencies with federal or state law;
- (f.) Adoption of an updated edition of the National Electrical Code if the commission finds that delay of implementing the updated edition causes undue hardship to stakeholders or otherwise threatens the public health, safety, and welfare.

APSP

Association of Pool & Spa Professionals

2211 Eisenhower Avenue

Alexandria, VA 22314

Standard referenced number	Title	Reference in code section number
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<u>ANSI/APSP/ICC-14-11</u>	<u>Portable Electric Spa Energy Efficiency</u>	<u>R403.9</u>
<u>Standard</u>		

<u>ANSI/APSP/ICC-15a-134</u>	<u>Residential Swimming Pool and Spa Energy Efficiency Standard,</u>	<u>R403.9</u>
<u>including Addenda A, Dated February 2013</u>		

Sub Code: Residential

SW6267

Date Submitted	4/30/2013	Section	4201.6.1	Proponent	Jennifer Hatfield
Chapter	42	Affects HVHZ	No	Attachments	No
TAC Recommendation	Approved as Submitted				
Commission Action	Pending Review				

Related Modifications

Standard update proposals

Summary of Modification

Corrects standard references to match the appropriate name, as standards have been updated the NSPI has been replaced with APSP/ICC.

Rationale

Accurately reflects the titles of the standards to reflect the ones that have been updated from NSPI to APSP/ICC standards.

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

Ensures what is in the code matches the title of the standard.

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

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

N/A

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

Yes

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

No

Does not degrade the effectiveness of the code

No

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

- (a.) Conflicts within the updated code;
- (b.) Conflicts between the updated code and the Florida Fire Prevention Code adopted pursuant to chapter 633;
- (c.) Unintended results from the integration of previously adopted Florida-specific amendments with the model code;
- (d.) Equivalency of standards;
- (e.) Changes to or inconsistencies with federal or state law;
- (f.) Adoption of an updated edition of the National Electrical Code if the commission finds that delay of implementing the updated edition causes undue hardship to stakeholders or otherwise threatens the public health, safety, and welfare.

R4201.6.1 Conformance standard. Design, construction and workmanship shall be in conformity with the requirements of ANSI/NSPI 3; ANSI/APSP/ICCNSPI 4; ANSI/ APSP/ICCNSPA 5; ANSI/APSP/ICCNSPI 6; and ANSI/APSP 7.

Date Submitted	4/30/2013	Section	45	Proponent	Jennifer Hatfield
Chapter	45	Affects HVHZ	No	Attachments	No
TAC Recommendation	Approved as Submitted				
Commission Action	Pending Review				

Related Modifications

SW 6265, 6266, and 6267

Summary of Modification

Corrects standard references to match date/edition/name information as published.

Rationale

Accurately reflects the titles of the standards to reflect the ones that have been updated to ANSI/APSP/ICC standards, updates editions for APSP-4 and APSP-5 to reflect changes already made in the building code book standard reference chapter, but that were missed here under the triennial cycle (so this provides consistency between Res and Bld) and updates the editions for APSP 6.

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

Ensures what is in the code matches the title/edition/date of standard.

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

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

N/A

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

Yes

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

No

Does not degrade the effectiveness of the code

No

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

- (a.) Conflicts within the updated code;
- (b.) Conflicts between the updated code and the Florida Fire Prevention Code adopted pursuant to chapter 633;
- (c.) Unintended results from the integration of previously adopted Florida-specific amendments with the model code;
- (d.) Equivalency of standards;
- (e.) Changes to or inconsistencies with federal or state law;
- (f.) Adoption of an updated edition of the National Electrical Code if the commission finds that delay of implementing the updated edition causes undue hardship to stakeholders or otherwise threatens the public health, safety, and welfare.

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Standard		Referenced in code
<u>reference number</u>	<u>Title</u>	<u>section number</u>

ANSI/APSP 7—06	<u>American National Standard for Suction Entrapment Avoidance in Swimming Pools, Wading Pools, Spas, Hot Tubs, and Catch</u>	
	AG106.1	
	Basins.....	<u>.R4201.6.1,</u>
<u>R4201.6.3, R4201.6.6</u>		

ANSI/NSPI 3—99	<u>American National Standard for Permanently Installed Residential</u>	
AG104.1		
Spas.....		<u>R4201.6.1</u>

ANSI/APSP/ICC NSPI 4—1299	<u>American National Standard for Aboveground/On</u>	
ground	AG103.2	
	Residential Swimming Pools. . . .	
.....	<u>R4201.6.1</u>	

ANSI/APSP/ICC NSPI 5-0311	<u>American National Standard for Residential In ground</u>	
Swimming	AG103.1	
Pools.....		<u>R4201.6.1</u>

ANSI/APSP/ICCNSPI 6—1399
AG104.2, R4201.6.1

American National Standard for Portable Spas.

