FSPA submitted the following 4 glitch proposals to the Florida Building Commission

Note the following:

1. These are not the official submittals, which are done electronically and can eventually be viewed on the FBC website. This document is a way to provide the FSPA members with the language/changes that were submitted.
2. Green represents the recent additions, red and yellow show changes made in the 2010 regular code cycle. Strikethroughs can represent both, but bottom line is if it is still struck-through the idea is not to see have that language in the final code.
3. The first two proposals listed offer two alternatives for the FBC to consider; either strike all the language and just refer to the standards or keep some of the language and refer to the standards.
4. The glitch proposal at the end provides for consistency with the fact this language was already removed from the code in another section, but unintentionally not removed here.

FSPA Proposal #4863 for Residential section of Energy Code

403.9 Swimming p~~P~~ools, inground spas, and portable spas (Mandatory). The energy requirements for residential pools and inground spas shal be as specified in Sections 403.9.1 through 403.9.3 and ANSI/APSP-15. The energy requirements for portable spas shall be in accordance with ANSI/APSP-14. ~~Pools shall be provided with energy-conserving measures in accordance with Sections 403.9.1 through 403.9.43 and compliance criteria found in Appendix D – Florida Standards, Florida Standard No. 1 2 (FL 1 2), Florida regulatory requirements for energy efficiency for residential inground swimming pools and spas, and Florida Standard No. 2 3 (FL 2 3), Florida regulatory requirements for portable spa energy efficiency .~~

403.9.1 Pool and spa heaters. All pool heaters shall be equipped with a readily *accessible* on-off switch that is mounted outside the heater to allow shutting off the heater without adjusting the thermostat setting. Gas fired heaters shall not be equipped with continuous pilot lights.

~~**403.9.1.1 Gas and oil-fired pool and spa heaters**. All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 78 percent when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural gas shall not have continuously burning pilot lights.~~

~~**403.9.1.2 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 laboratories is required to verify procedure compliance.~~

~~**403.9.1.3 Portable spa standby power**. Portable electric spa standby power shall not be greater than 5(V2/3) watts where V = the total volume, in gallons, when spas are measured in accordance with the spa industry test protocol.~~

403.9.2 Time switches. Time switches shall be installed to control ~~on~~ swimming pool heaters and pumps that can automatically turn ~~off and on~~ the heaters and pumps off and on according to a preset schedule ~~shall be installed on swimming pool heaters and pumps~~.

Exceptions:

1. Where public health standards require 24-hour pump operation.
2. Where pumps are required to operate solar- and waste-heat-recovery pool heating systems.
3. Where pumps are powered exclusively from on-site renewable generation.

403.9.3 ~~Pool c~~Covers. Heated swimming pools and inground permanently installed spas shall be equipped with a vapor-retardant ~~pool~~ cover on or at the water surface or a liquid cover or other means proven to reduce heat loss. ~~Pools heated to more than 90°F (32°C) shall have a pool cover with a minimum insulation value of R-12.~~

Exception: Outdoor p~~P~~ools deriving over 70 ~~60~~ percent of the energy for heating from site-recovered energy or solar energy source computed over an operating season.

~~403.9.4 Pool design. Residential pool pumps and pump motors.~~ ~~Pool filtration pump motors shall meet the following requirements, along with the compliance criteria provided for in FL-1 2, Appendix D.~~

~~403.9.4.1 Pool pump motors.~~ ~~Pool pump motors shall meet the following criteria:~~

~~1. Pool pump motors shall not be split-phase, shaded-pole or capacitor start-induction run types.~~

~~2. Pool pumps and pool pump motors with a total horsepower (HP) of ≥ 1 HP shall have the capability of operating at two or more speeds. The low speed shall have a rotation rate of no more than ½ of the motor's maximum rotation rate.~~

~~3. Pool pumps motor controls shall have the capability of operating the pool pump at a minimum of two speeds. The default circulation speed shall be the residential filtration speed, with a higher speed override capability for a temporary period not to exceed one normal cycle or 120 minutes 24 hours, whichever is less.~~

~~Exception:~~ ~~Solar pool heating systems shall be permitted to run at higher speeds during periods of usable solar heat gain.~~

~~403.9.5 Portable spa standby power~~~~. Portable electric spa standby power shall not be greater than 5(V2/3) watts where V = the total volume, in gallons, when spas are measured in accordance with the spa industry test protocol provided in FL-2 3, Appendix D.~~

So what would result, if above passes, would like this:

403.9 Residential swimming pools, in-ground spas, and portable spas (Mandatory). The energy requirements for residential pools and inground permanently installed spas shall be as specified in Sections 403.9.1 through 403.9.3 and ANSI/APSP-15. The energy requirements for residential portable electric spas shall be in accordance with ANSI/APSP-14.

403.9.1 Pool and spa heaters. All pool heaters shall be equipped with a readily *accessible* on-off switch that is mounted outside the heater to allow shutting off the heater without adjusting the thermostat setting. Gas fired heaters shall not be equipped with continuous pilot lights.

403.9.2 Time switches. Time switches shall be installed to control swimming pool heaters and pumps that can automatically turn the heaters and pumps off and on according to a preset schedule.

Exceptions:

1. Where public health standards require 24-hour pump operation.
2. Where pumps are required to operate solar- and waste-heat-recovery pool heating systems.
3. Where pumps are powered exclusively from on-site renewable generation.

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

Exception: Outdoor pools deriving over 70 percent of the energy for heating from site-recovered energy or solar energy source computed over an operating season.

FSPA Proposal #4869 for Residential section of Energy Code

403.9 Swimming p~~P~~ools, inground spas, and portable spas (Mandatory). The energy requirements for residential pools and inground spas shall be as specified in Sections 403.9.1 through 403.9.4 and ANSI/APSP-15. The energy requirements for portable spas shall be in accordance with Section 403.9.5 and ANSI/APSP-14. ~~Pools shall be provided with energy-conserving measures in accordance with Sections 403.9.1 through 403.9.43 and compliance criteria found in Appendix D – Florida Standards, Florida Standard No. 1 2 (FL 1 2), Florida regulatory requirements for energy efficiency for residential inground swimming pools and spas, and Florida Standard No. 2 3 (FL 2 3), Florida regulatory requirements for portable spa energy efficiency.~~.

403.9.1 Pool and spa heaters. All pool heaters shall be equipped with a readily *accessible* on-off switch that is mounted outside the heater to allow shutting off the heater without adjusting the thermostat setting.

403.9.1.1 Gas and oil-fired pool and spa heaters. All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 78 percent when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights.

403.9.1.2 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 laboratories is required to verify procedure compliance.

~~**403.9.1.3 Portable spa standby power**. Portable electric spa standby power shall not be greater than 5(V2/3) watts where V = the total volume, in gallons, when spas are measured in accordance with the spa industry test protocol.~~

403.9.2 Time switches. Time switches shall be installed to control ~~on~~ swimming pool heaters and pumps that can automatically turn ~~off and on~~ the heaters and pumps off and on according to a preset schedule ~~shall be installed on swimming pool heaters and pumps~~.

Exceptions:

1. Where public health standards require 24-hour pump operation.
2. Where pumps are required to operate solar- and waste-heat-recovery pool heating systems.
3. Where pumps are powered exclusively from on-site renewable generation.

403.9.3 ~~Pool c~~Covers. Heated swimming pools and inground permanently installed spas shall be equipped with a vapor-retardant ~~pool~~ cover on or at the water surface or a liquid cover or other means proven to reduce heat loss. ~~Pools heated to more than 90°F (32°C) shall have a pool cover with a minimum insulation value of R-12.~~

Exception: Outdoor p~~P~~ools deriving over 70 ~~60~~ percent of the energy for heating from site-recovered energy or solar energy source computed over an operating season.

403.9.4 ~~Pool design.~~ Residential pool pumps and pump motors. Pool filtration pump motors shall meet the following requirements~~, along with the compliance criteria provided for in FL 1 2, Appendix D.~~

~~403.9.4.1 Pool pump motors.~~ ~~Pool pump motors shall meet the following criteria~~:

1. Pool pump motors shall not be split-phase, shaded-pole or capacitor start-induction run types.
2. Pool pumps and pool pump motors with a total horsepower (HP) of ≥ 1 HP shall have the capability of operating at two or more speeds. The low speed shall have a rotation rate of no more than ½ of the motor's maximum rotation rate.
3. Pool pumps motor controls **for use with a two-speed, multi-speed, or variable-speed pump** shall have the capability of operating the pool pump at a minimum of two speeds. The default circulation speed shall be the residential filtration speed, with a higher speed override capability for a temporary period not to exceed one normal cycle or ~~120 minutes~~ 24 hours, whichever is less.

Exception: Solar pool heating systems shall be permitted to run at higher speeds during periods of usable solar heat gain.

403.9.5 Portable spa standby power. Portable electric spa standby power shall not be greater than 5(V2/3) watts where V = the total volume, in gallons, when spas are measured in accordance with the spa industry test protocol provided in ~~FL 2 3, Appendix D~~ANSI/APSP-14.

FSPA Proposal #4864 for Appendix D and Chapter 6

Based on two proposals above, necessary to submit this proposal that removes Florida Standards 1 (what was draft APSP-15) and 2 (what was draft APSP-14) and adds under Chapter 6, referenced standards the following:

APSP

Association of Pool & Spa Professionals
2211 Eisenhower Ave
Alexandria, VA 22314

Standard referenced number	Title	Reference in code section number
ANSI/APSP-14—11	Portable Electric Spa Energy Efficiency Standard	403.9
ANSI/APSP-15—11	Residential Swimming Pool and Spa Energy Efficiency Standard……	403.9

FSPA Proposal #4848: removes the GFCI exemption under the building code, that was already removed under the residential code, so needed for consistency and fact UL pump motor requirements now state GFCI must also be installed.

~~**Section 3404 GFCI Protection**~~

~~**3404.1** NFPA 70 – 08: National Electric Code, Article 680 (Swimming Pools, Fountains, and Similar Installation), Section 680.22(B), GFCI Protection, is amended to read as follows:~~

~~**(B) GFCI Protection. Outlets supplying pool pump motors from branch circuits with short-circuit and ground-fault protection rated 15 or 20 amperes, 125 volt or 240 volt, single phase, whether by receptacle or direct connection, shall be provided with ground-fault circuit-interrupter protection for personnel.**~~

~~**Exception: One-and two-family dwellings.**~~