

ELECTRICAL
Local Technical Amendments
to the
2014 5th Edition Florida Building Code

JURISDICTION	DOCUMENT with TECHNICAL AMENDMENT	TEXT OF TECHNICAL AMENDMENT	TAC REVIEW
Broward County	Florida Building Code, Building – Ch. 4 – Special Detailed Requirements Based on Use and Occupancy	<p>454.2.16.1 Electrical. When underwater light fixtures are installed for swimming or bathing pools, these fixtures shall not exceed the following maximum output/ performance standards:</p> <p>1). 15 volts (RMS) for sinusoidal alternating current</p> <p>2). 21.2 volts peak for nonsinusoidal alternating current</p> <p>3). 30 volts continuous direct current</p> <p>4). 12.4 volts peak for direct current that is interrupted at a rate of 10 to 200 Hertz</p> <p>5). The maximum incandescent lamp size shall be 300 Watts</p>	Electrical and Swimming Pool TAC Vote: (
Pinellas County Construction Licensing Board	Florida Building Code, Building	<p>2701.1 2701.1 Scope. This chapter governs the electrical components, equipment and systems used in buildings and structures covered by this code. Electrical components, equipment and systems shall be designed and constructed in accordance with the provisions of the NFPA 70, National Electrical Code.</p> <p>AMEND EXISTING NEC SECTION Article 250.96 Bonding Other Enclosures. (A) General. Metal raceways, cable trays, cable armor, cable sheath, enclosures, frames, fittings, and other metal non-current-carrying parts that are to serve as equipment grounding conductors, with or without the use of supplementary equipment grounding conductors, shall</p>	Electrical TAC

		<p>be bonded where necessary to ensure electrical continuity and the capacity to conduct safely any fault current likely to be imposed on them. Any nonconductive paint, enamel, or similar coating shall be removed at threads, contact points, and contact surfaces or be connected by means of fittings designed so as to make such removal unnecessary. <u>All raceways shall contain an equipment-grounding conductor sized in accordance with Table 250.122.</u></p>	
Broward County	Florida Building Code, Residential	<p>Amendment to Section E 4206.4.2. E4206.4.2.3 <u>When underwater light fixtures are installed for swimming or bathing pools, these fixtures shall not exceed the following maximum output/ performance standards:</u></p> <ol style="list-style-type: none"> <u>1. 15 volts (RMS) for sinusoidal alternating current</u> <u>2. 21.2 volts peak for nonsinusoidal alternating current</u> <u>3. 30 volts continuous direct current</u> <u>4. 12.4 volts peak for direct current that is interrupted at a rate of 10 to 200 Hertz</u> <u>5. The maximum incandescent lamp size shall be 300 watts</u> 	Swimming Pool and Electrical TAC
County of Miami-Dade	Florida Building Code, Residential	<p><u>Underwater Pool Lighting for Private Swimming and Recreational Bathing Pools in areas of incorporated and unincorporated Miami-Dade County to conform to the provisions in the forthcoming Florida Building Code 5th Edition, providing server-ability, inclusion in the Code, and an effective date.</u></p> <p>[[Sec R4101.16 Electrical]] >> E4206.4.1 Maximum voltage. <u>The maximum voltage for each luminaire in any private swimming or recreational bathing pools shall not exceed the Low Voltage Contact Limit, which is defined as a voltage not exceeding the following values:</u></p> <ol style="list-style-type: none"> (1) <u>15 volts (RMS) for sinusoidal alternating current</u> (2) <u>21.2 volts peak for nonsinusoidal alternating current</u> (3) <u>30 volts continuous direct current</u> (4) <u>12.4 volts peak for direct current that is interrupted at a rate of 10 to 200 Hertz.</u> <p><u>The maximum incandescent lamp size shall be 300 watts. <<</u></p>	Swimming Pool TAC and Electrical TAC

~~Electrical wiring and equipment shall comply with Chapter 27 of the Florida Building Code~~

~~R4101.16.1~~ **E4206.4.1.1** ~~Lighting~~

When artificial underwater lighting is utilized in any private swimming or recreational bathing pools, all portions of the pool, including the entire bottom and any and all drains, shall be readily seen without glare.

~~The maximum voltage for each luminaire shall not exceed the Low Voltage Contact Limit, which is defined as a voltage not exceeding the following values:~~

- ~~(1) 15 volts (RMS) for sinusoidal alternating current~~
- ~~(2) 21.2 volts peak for nonsinusoidal alternating current~~
- ~~(3) 30 volts continuous direct current~~
- ~~(4) 12.4 volts peak for direct current that is interrupted at a rate of 10 to 200 Hertz.~~

~~The maximum incandescent lamp size shall be 300 watts.~~

(D) The County hereby adopts the following local technical amendment to Chapter 4 (Building) of the Florida Building Code.

4.2.16 Electrical.

Electrical wiring and equipment shall comply with Chapter 27 of the Florida Building Code, Building.

4.16.1 Lighting

When artificial underwater lighting is utilized in any private swimming or recreational bathing pools, all portions of the pool, including the entire bottom and any and all drains, shall be readily seen without glare.

4.16.2 Underwater Lighting

		<p>Section 2. If any section, subsection, sentence, clause or provision of this ordinance is held invalid, the remainder of this ordinance shall not be affected by such invalidity.</p> <p>Section 3. It is the intention of the Board of County Commissioners, and it is hereby ordained that the provisions of this ordinance, including any sunset provision, shall become and be made a part of the Code of Miami-Dade County, Florida. The sections of this ordinance may be remembered or relettered to accomplish such intention, and the word “ordinance” may be changed to “section,” “article,” or other appropriate word.</p> <p>Section 4. This ordinance shall become effective ten (10) days after the date of enactment unless vetoed by the Mayor, and if vetoed, shall become effective only upon an override by this Board.</p>	
County of Miami-Dade	Florida Building Code, Residential	<p>(Due to formatting, please review by clicking on link below:)</p> <p>See attached</p> <p>https://floridabuilding.org/Upload/FBC/CodeID_7195_f91b_County_of_Miami-Dade-Local%20Amendment-%20Pool_Lighting-ORDINANCE%20NO%20-15-27.pdf</p>	Electrical and Swimming Pool TAC
Pinellas County Construction Licensing Board	Florida Building Code, Building	<p>AMEND EXISTING NEC SECTION</p> <p>ARTICLE 285 Surge-Protective Devices (SPDs), 1000 Volts or Less</p> <p>Article 285.1 Scope. This article covers general requirements, installation requirements, and connection requirements for surge-protective devices (SPDs) permanently installed on premises wiring systems of 1000 volts or less.</p> <p>Information Note: Surge arresters 1000 volts or less are also known as Type 1 SPDs.</p>	Electrical TAC

		<p>285.3 Uses Not Permitted. An SPD device shall not be installed in the following:</p> <ul style="list-style-type: none"> (1) Circuits over 1000 volts (2) On ungrounded systems, impedance grounded systems, or corner grounded delta systems unless listed specifically for use on these systems (3) Where the rating of the SPD is less than the maximum continuous phase-to-ground power frequency voltage available at the point of application. <p>285.4 Number Required. Where used at a point on a circuit, the SPD shall be connected to each ungrounded conductor.</p> <p><u>Surge-Protective Devices (SPDs) shall be installed on all service equipment. Where used at a point on a circuit, a surge-protective device shall be connected to each ungrounded conductor. A single installation of such surge-protective devices shall be permitted to protect a number of interconnected circuits provided that no circuit is exposed to surges while disconnected from the surge-protective devices.</u></p>	

Approved _____ Mayor
Veto _____
Override _____

Agenda Item No. 7(B)
5-5-15

ORDINANCE NO. 15-27

ORDINANCE AMENDING SECTION 8-31 OF THE CODE OF MIAMI-DADE COUNTY, FLORIDA, REVISING SUBSECTIONS PERTAINING TO UNDERWATER POOL LIGHTING FOR PRIVATE SWIMMING AND RECREATIONAL BATHING POOLS IN AREAS OF INCORPORATED AND UNINCORPORATED MIAMI-DADE COUNTY TO CONFORM TO THE PROVISIONS IN THE FORTHCOMING FLORIDA BUILDING CODE 5th EDITION, PROVIDING SEVERABILITY, INCLUSION IN THE CODE, AND AN EFFECTIVE DATE

BE IT ORDAINED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA:

Section 1. Section 8-31 of the Code of Miami-Dade County, Florida, is amended as follows:¹

Sec. 8-31. Local technical amendments to Florida Building Code.

* * *

(C) The County hereby adopts the following local technical amendment to Chapter 4~~[[1]]~~>>2<< (Residential) of the Florida Building Code.

~~[[R4101.16 Electrical]]~~ >>E4206.4.1 Maximum Voltage.
The maximum voltage for each luminaire in any private swimming or recreational bathing pools shall not exceed the Low Voltage Contact Limit, which is defined as a voltage not exceeding the following values:
(1) 15 volts (RMS) for sinusoidal alternating current
(2) 21.2 volts peak for nonsinusoidal alternating current
(3) 30 volts continuous direct current

¹ Words stricken through and/or [[double bracketed]] shall be deleted. Words underscored and/or >>double arrowed<< constitute the amendment proposed. The remaining provisions are now in effect and remain unchanged.

(4) 12.4 volts peak for direct current that is interrupted at a rate of 10 to 200 Hertz

The maximum incandescent lamp size shall be 300 watts.<<

~~[[Electrical wiring and equipment shall comply with Chapter 27 of the Florida Building Code.]]~~

~~[[R4101.16.1]] >>E4206.4.1.1<< Lighting~~

When artificial underwater lighting is utilized in any private swimming or recreational bathing pools, all portions of the pool, including the entire bottom and any and all drains, shall be readily seen without glare.

~~[[R4101.16.2 Underwater Lighting~~

~~The maximum voltage for each luminaire shall not exceed the Low Voltage Contact Limit, which is defined as a voltage not exceeding the following values:
(1) 15 volts (RMS) for sinusoidal alternating current
(2) 21.2 volts peak for nonsinusoidal alternating current
(3) 30 volts continuous direct current
(4) 12.4 volts peak for direct current that is interrupted at a rate of 10 to 200 Hertz
The maximum incandescent lamp size shall be 300 watts.]]~~

- (D) The County hereby adopts the following local technical amendment to Chapter 4 (Building) of the Florida Building Code.

4[[2]]>>5<<4.2.16 Electrical.

Electrical wiring and equipment shall comply with Chapter 27 of the Florida Building Code, Building.

4[[2]]>>5<<4.16.1 Lighting

When artificial underwater lighting is utilized in any private swimming or recreational bathing pools, all portions of the pool, including the entire bottom and any and all drains, shall be readily seen without glare.

4[[2]]>>5<<4.16.2 Underwater Lighting

The maximum voltage for each luminaire shall not exceed the Low Voltage Contact Limit, which is defined as a voltage not exceeding the following values:
(1) 15 volts (RMS) for sinusoidal alternating current
(2) 21.2 volts peak for nonsinusoidal alternating current
(3) 30 volts continuous direct current
(4) 12.4 volts peak for direct current that is interrupted at a rate of 10 to 200 Hertz

The maximum incandescent lamp size shall be 300 watts.

Section 2. If any section, subsection, sentence, clause or provision of this ordinance is held invalid, the remainder of this ordinance shall not be affected by such invalidity.

Section 3. It is the intention of the Board of County Commissioners, and it is hereby ordained that the provisions of this ordinance, including any sunset provision, shall become and be made a part of the Code of Miami-Dade County, Florida. The sections of this ordinance may be renumbered or relettered to accomplish such intention, and the word "ordinance" may be changed to "section," "article," or other appropriate word.

Section 4. This ordinance shall become effective ten (10) days after the date of enactment unless vetoed by the Mayor, and if vetoed, shall become effective only upon an override by this Board.

PASSED AND ADOPTED: May 5, 2015

Approved by County Attorney as
to form and legal sufficiency:



Prepared by:



David Sherman

Prime Sponsor: Commissioner Audrey M. Edmonson
Co-Sponsors: Commissioner Daniella Levine Cava
Commissioner Jose "Pepe" Diaz
Commissioner Sally A. Heyman
Commissioner Barbara J. Jordan
Commissioner Juan C. Zapata

