



Board Administration Section  
11805 SW 26TH Street (Coral Way) Rm. 230  
MIAMI, FLORIDA 33175  
T (786) 315-2573 F (786) 315-2570  
[www.miamidade.gov/development](http://www.miamidade.gov/development)

## ADVISORY MEMO

**TO:** ALL BUILDING OFFICIALS IN MIAMI-DADE COUNTY

**FROM:** *for* Secretary of the Board *WJG*  
Board of Rules and Appeals

**DATE:** December 4, 2014

**SUBJECT:** Underwater Swimming Pool Light Local Technical Amendment Effective December 5, 2014

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Ordinance 14-95 was adopted by the Miami-Dade County Board of County Commissioners on October 7, 2014. This ordinance created a local technical amendment modifying Section R4101.16 of the Florida Building Code, Residential and Section 424.2.16 of the Florida Building Code, Building relating to underwater swimming pool lights. The purpose of the local technical amendment is to enhance electrical safety in private swimming pools.

Pursuant to Florida Statute 553.73 4(b)5, the local technical amendment has been transmitted to the Florida Building Commission in a format which is usable and obtainable by the public. Subsequently, the local technical amendment was published on the Building Code Information System as of November 4, 2014.

The effective date of the local technical amendment and its implementation by all Building Officials is **December 5, 2014**. The modified portions of the sections are highlighted by underlining and are shown below:

***R4101.16 Electrical.***

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

### **R4101.16.1 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.

### **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.

### **424.2.16 Electrical.**

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

### **424.2.16.1 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.

### **424.2.16.2 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:

- (5) 15 volts (RMS) for sinusoidal alternating current
- (6) 21.2 volts peak for nonsinusoidal alternating current
- (7) 30 volts continuous direct current
- (8) 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.

Should you have any questions, please contact Michael Goolsby at (786) 315-2508.