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## CITY OF BONITA SPRINGS

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# EXTERIOR AND INTERIOR SEA TURTLE LIGHTING STANDARDS VERIFICATION

## LAND DEVELOPMENT CODE CHAPTER 7 ENVIRONMENT, NATURAL RESOURCES AND MARINE FACILITIES, STRUCTURES AND EQUIPMENT ARTICLE II. - SEA TURTLES

### Sec. 7-45 Exterior and Interior Lighting Affixed to New Structures, New Construction and Improvements to Existing Structures

This verification form is mandatory for new building construction, additions, or remodeling permits which may contain additions or changes to exterior lighting and/or windows or other forms of exterior glass in which associated lighting will be visible from the beach.

1.  New Construction on barrier island  Addition/Remodel Existing Building on barrier island
2. Will the project consist of any addition or change of exterior lighting or glass visible from the beach?  No  Yes (must confirm compliance with the following):

#### Sec.7-40. - Purpose and Objective

The purpose and intent of this Article is to protect nesting and hatchling sea turtles on the beaches in the City of Bonita Springs by ensuring that the nesting habitat is not degraded by artificial light and other humanmade impacts to nesting habitat in an effort to facilitate successful nesting activity and hatching events. In order to further the objective of full implementation, this Article also includes provisions designed to educate residents and beach users on the benefits of appropriate coastal lighting and provides for regular inspections to ensure compliance with the acceptable lighting standards.

#### Sec. 7-42. -Sea Turtle Lighting District; Applicability

- (a) An overlay district, known as the Sea Turtle lighting District, is hereby established and shall include all properties on the barrier islands within the City of Bonita Springs that may produce artificial light directly, indirectly, or cumulatively visible from any portion of the beach, regardless of whether those properties are beachfront properties.
- (b) The provisions of this Article apply to new and existing artificial lighting visible from the beach from all buildings and related infrastructure, including streetscapes, parking lots, outdoor areas, landscaping, as well as public parks and recreational areas and all other activities within the City of Bonita Springs which may adversely affect sea turtle nesting habitat.

#### Sec. 7-45 Exterior and Interior Lighting Affixed to New Structures, New Construction and Improvements to Existing Structures.

- (a) All lighting affixed to the exterior of new permanent structures, construction or additions shall be long wavelength, downward directed, full cutoff, fully shielded and mounted as close to the ground or finished floor surface as possible to achieve the required foot-candles.
- (b) As an exception to subsection (a) above, non-egress lighting may be affixed to the landward exterior of permanent structures provided that the fixtures are fitted with a long wavelength source and are not directly, indirectly, or cumulatively visible from any portion of the beach.
- (c) Lighting at egress points shall be limited to the minimum number of fixtures and foot-candles necessary to meet federal, state, and local safety requirements.
- (d) Locations including but not limited to stairwells, elevators, parking garages, or courtyards shall not produce light that is directly, indirectly, or cumulatively visible from any portion of the beach. Light screens, shades or curtains shall be used to block visibility of interior lights from the beach. Light screens shall be used on open or enclosed staircases on the seaward or shore-perpendicular side of a building or for parking garages to limit visibility of lights from the nesting beach.
- (e) All glass windows, walls, railings and doors on the seaward and shore-perpendicular sides of any new construction shall use tinted glass or window film applied to glass with an inside to outside light transmittance value of forty-five percent (45%) or less.

#### Sec 7-50 - Existing Exterior and Interior Lighting

- (a) In the event that impermissible light pollution exists, property owners shall reduce or eliminate the negative effects of existing exterior artificial lighting through the following measures:
  - (1) Reposition, modify or remove existing lighting fixtures so that the point source of light or any reflective surface of the light fixture is no longer directly, indirectly or cumulatively visible from the beach;

- (2) Replace fixtures having an exposed light source with fully shielded fixtures;
  - (3) Replace any light source, light bulb or lamp that is not long wavelength (e.g. incandescent, fluorescent. or high intensity lighting) with the lowest wattage long wavelength (e.g. LED or low pressure sodium) light source or lamp available for the specific application;
  - (4) Replace non-directional fixtures with directional fixtures that point down and away from the beach;
  - (5) Provide shields for fixtures visible from the beach and not practical to immediately be replaced. Beachside shields are to cover 270 degrees and extend below the bottom edge of the fixture on the seaward side so that the light source or any reflective surface of the light fixtures is not visible from the beach;
  - (6) Replace pole lamps with low-profile, low-level luminaries so that the light source or any reflective surface of the light fixture is not visible from the beach;
  - (7) Plant or improve vegetation buffers between the light source and the beach to screen light from the beach;
  - (8) Construct a ground level barrier landward of the beach and frontal dune to shield light sources from the beach. Ground-level barriers are to be considered a last resort when no other remediation of the light source is feasible. Ground level barriers may be subject to state coastal construction control line regulations under section 161.053, Florida Statutes, and must not interfere with sea turtle nesting or hatchling emergence, or cause short- or long- term damage to the beach and dune system;
  - (9) Remove or disable any fixture not required for minimum lighting purposes which cannot be brought into compliance with the provisions of these standards.
- (b) In the event that impermissible light pollution exists, property owners shall take one or more of the following measures to minimize interior light emanating from doors and windows within line-of-sight of the beach:
- (1) Apply window tint or film that meets the light transmittance standards for tinted glass;
  - (2) Rearrange lamps and other moveable fixtures away from windows;
  - (3) Use opaque shades or room darkening window treatments (e.g., blinds, curtains, screens) to shield interior lights from the beach.

**OWNER SWORN STATEMENT**

This application is for a permit to do the indicated work. No work or installation has commenced or will commence prior to the issuance of a permit. All work performed will meet the regulatory standards of this jurisdiction. The information contained on this application is accurate, and **any window treatments and any future interior design changes to window treatments that do not require a permit will be in full compliance with LDC Sec. 7-45, as noted above. Additionally, any lighting that is not visible from the beach at the time of the Final Environmental Inspection related to the permit but becomes visible at a later date due to changes in surroundings, shall be modified pursuant to LDC Sec. 7-50, as shown above.**

Initial \_\_\_\_\_

**\*\*\*SIGN ONLY IN THE PRESENCE OF A NOTARY PUBLIC\*\*\***

Owner Signature: \_\_\_\_\_

Owner Name: \_\_\_\_\_

Site Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_

Date: \_\_\_\_\_

STATE OF FLORIDA

COUNTY OF LEE

Sworn to (or affirmed) and subscribed before me by means of physical presence  or online notarization  ,

this (day) \_\_\_\_\_ of (month) \_\_\_\_\_ , (year) \_\_\_\_\_ ,

by (name of person making statement) \_\_\_\_\_.

Signature of Notary Public - State of Florida: \_\_\_\_\_

Name of Notary Typed, Printed, or Stamped: \_\_\_\_\_

Personally Known  OR Produced Identification

Type of Identification Produced: \_\_\_\_\_