Document Revisions (Title style)

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**IALA Guideline No. ####**

**On**

**The Illumination of Structures**

**Edition 1**

**[December 2013]**

Revisions to the IALA Document are to be noted in the table prior to the issue of a revised document.

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Illumination of Structures

# Introduction

* + Why illuminate the structure?
    - Fixed visual point of reference – Useful?
    - Conspicuity against background lighting – Useful?
    - Extended source of light
    - Should be in conjunction with an existing AtoN
    - It extends the daytime operation to night
    - 3D spatial awareness – depth perception
    - Ricco’s Law
    - LED Technology has allowed low power ‘emissive’ coloured lighting

# background

# scope

* + - Authorities have been using this and required Guidance, sharing good practices and providing Guidance

# definitions

# basic principles

* + Methods of Calculating
  + Use simulations generated in software
  + In-direct lighting – floodlighting or façade
    - Luminance
    - Illuminance
    - Angular sub -tense
  + Direct ‘emissive’ lighting – LED Pipes, ropes, contour, panels
    - Luminance
    - Illuminance
    - Angular sub-tense

# light sources

* + Fluorescent
  + LED
  + Sodium
  + Metal halide

# applications

* + Methods of Design
  + Lighthouses
  + Buoys
  + Bridges
  + Leading lines
  + Locks
  + Break water
  + Windfarms

1. Annex Title

Guidelines should have Annexes. Appendices are attached to Annexes.

ANNEX HEAD1

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