



PAP33-6.2.1.2 C1
Formerly ENG6-11.1.13
C63-8.4.1.2

IALA STANDARD

1020

AIDS TO NAVIGATION DESIGN AND DELIVERY

Edition 1.0

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10, rue des Gaudines - 78100 Saint Germain en Laye, France
Tél. +33 (0)1 34 51 70 01- Fax +33 (0)1 34 51 82 05 - contact@iala-aism.org
www.iala-aism.org

International Association of Marine Aids to Navigation and Lighthouse Authorities
Association Internationale de Signalisation Maritime

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1. INTRODUCTION

IALA publishes Standards, Recommendations, and Guidelines for the global harmonisation of the provision, maintenance, and operation of marine aids to navigation, to foster the safe, economic, and efficient movement of vessels, and for the protection of the environment.

They are defined as follows.

Document	Definition
IALA Standards	IALA Standards form a framework, implementation of which by all coastal states will harmonize marine aids to navigation worldwide. IALA standards cover technology and services and are non-mandatory.
IALA Recommendations	IALA Recommendations specify what practices shall be carried out in order to comply with a Recommendation, and may be referenced, in full or in part, in an IALA Standard.
IALA Guidelines	IALA Guidelines describe how to implement practices normally specified in a Recommendation.

2. PURPOSE

The IALA Strategic Vision for the period 2014-2026, adopted by the General Assembly in 2014, ~~had two~~ includes the Goals, the first of which is to

“Ensure that aids to navigation systems and related services, including e-Navigation, Vessel Traffic Services, and emerging technologies, are harmonized through international cooperation and the provision of standards.”

IALA Standards are suitable for direct citation by States in the interest of an efficient and harmonised global network of **marine** aids to navigation and services.

3. APPLICATION

This Standard is suitable for implementation by all marine aids to navigation authorities.

4. SCOPE

IALA Standards may contain Normative and Informative provisions.

Normative provisions are those with which it is necessary to conform in order to claim compliance with the Standard.

Informative provisions are those which specify additional desirable practices but with which it is not necessary to conform in order to claim compliance with the Standard.

This Standard references Normative and Informative provisions, detailed in the listed IALA Recommendations, covering the following scope.

- Visual signalling (Vision, Colour, Conspicuity, Rythmic characters)
- Range and performance (Visual and Audible)
- Design, Implementation, and Maintenance

- Power systems
- Floating Aids to Navigation (Buoys, Moorings, Stability)
- Environment, Sustainability, and Legacy

5. REFERENCED DOCUMENTS

In this Standard, any reference to a Recommendation is to the most recent version approved by the IALA Council.

In this Standard the word ‘shall’ is used to indicate that a provision is Normative and ~~se~~ is to be followed in order to comply with the ~~s~~Standard. The word ‘should’ introduces Informative provisions.

The following Recommendations are **Normative** provisions, and **shall** be observed if compliance with this Standard is claimed.

Scope	Number	Title
Visual Aids to Navigation	E-408 R0108	The Surface Colours used as Visual Signals on Aids to Navigation
	E-110 R0110	The Rhythmic Characters of Lights on Aids to Navigation
	E-112	Leading Lights
	E-200-1 R0201	Marine Signal Lights Part 1 – Colours
	R0106	<u>The Use of Retroreflecting Material on Aids to Navigation Marks Within the IALA Maritime Buoyage System</u>
	O-104 R0104	Off Station Signals for Major Floating Aids
Range and Performance	E-200-2 R0202	Marine Signal Lights Part 2 - Calculation, Definition and Notation of Luminous Range
	R0203	<u>Marine Signal Lights – Terms of Measurement</u>
	R0204	<u>Marine Signal Lights – Determination and Calculation of Effective Intensity</u>
<u>Environment, Sustainability & Legacy</u>	R100?	<u>Environmental Management in the provision of marine Aids to Navigation</u>

Commenté [JD1]: Editing comment – The Recommendation titles below use of mix of lower and upper case. Suggest Title Case be used.

Commenté [JD2]: ENG7 – Recommendation E112 will be converted to a Guideline

Commenté [JD3]: The existing E200 Recommendation has been reformatted into four Recommendations R0201, R0202, R0203 and R0204. Planned output at ENG7 for Council approval. Supporting Guidelines will be compiled from existing E200 series in the 2018-22 work plan.

Commenté [JD4]: ENG7 – changed from Informative to Normative.

The following Recommendations are **Informative** provisions and **should** be observed if compliance with this Standard is claimed.

Scope	Number	Title
Visual Aids to Navigation	E-406	The Use of Retroreflecting Material On Aids To Navigation Marks



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		Within The IALA Maritime Buoyage System
Range and Performance	E-200-0	Marine Signal Lights Part 0 – Overview
	E-200-3	Marine Signal Lights Part 3 – Measurement
	E-200-4	Marine Signal Lights Part 4 – Determination and Calculation of Effective Intensity
	E-200-5	Marine Signal Lights Part 5 – Estimation of the Performance of Optical Apparatus
	R0109 E-109	The Calculation of The Range of a Sound Signal
Design, Implementation & Maintenance	R0126 A-126	Use of the <u>Automatic Identification System (AIS)</u> in Marine Aids to Navigation Service
Floating Aids to navigation	R0107 E-107	Moorings for Floating Aids to Navigation
<u>Environment, Sustainability & Legacy</u>	R100?	<u>Conserving the Built Heritage of Lighthouses and other Aids to Navigation</u>

6. SUPPLEMENTARY ELEMENTS

There are no supplementary elements to this Standard.

7. ADOPTION OF AND AMENDMENT OF STANDARDS

IALA Standards may be adopted or amended by a majority vote at a General Assembly of national members.

8. DOCUMENT HISTORY

Date	Amendment Details	Approval
2018-06-01	First issue	General Assembly Resolution, Incheon, <u>Republic of</u> Korea, May 2018.