Input paper: [[1]](#footnote-1) ENG5-9.20

Input paper for the following Committee(s): Purpose of paper:

**□** ARM **x** ENG **□** PAP **x** Input

**□** ENAV **□** VTS **□** Information

Agenda item [[2]](#footnote-2) 9 ref ENG 4 Task 41

Technical Domain / Task Number 2 Visual and Physical AtoN / Tasks 1.1.1, 5.1.3,

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Conversion of E-200 for the new IALA strategy

# Summary

The paper contains proposals for moving some key information of IALA-Recommendation E-200 on Marine Signal Lights to new recommendations.

The main content of E-200 can be then moved to several other guidelines.

A draft recommendation is presented on ‘nominal range’ and on ‘colours’.

A new guideline ‘intensity and range calculation’ is presented as a fragmentary draft.

## Purpose of the document

IALA ENG committee, WG1 should consider the proposals and define a structure for the new recommendations and guidelines.

## Related documents

IALA-Recommendation E-200 Series on Marine Signal Lights (part 0 to 5)

IALA Guideline 1065 Signal Light Beam Vertical Divergence

IALA Guideline 1023 on Leading Lines

IALA Recommendation E-111 on Leading Lights

# Background

Although IALA Recommendation E-200 has been a very good summary of information, it does not fit into the new IALA strategy.

Each part of E-200 contains:

* standards (named recommendation in new IALA strategy),
* guidance,
* background information.

In discussions during several committee meetings it was found that the guidance for designing marine signal lights was not worked out completely and there is a demand to give more information.

# Discussion

## Basic standards

### Range and Nominal range

The calculation of nominal range is used for

* the list of lights and
* the charts.

I put the calculation into a new draft recommendation

‘DOCUMENT RANGE FOR ENG5’

MARINE SIGNAL LIGHTS CALCULATION; DEFINITION AND NOTATION OF LUMINOUS RANGE

FILE: *draft\_recommendation\_on\_luminous\_range\_forENG5.docx*

It consists of a single text page and two tables and diagrams (night / day).

There is no new content in the draft.

### Colour of signal lights

I put some basics on colours, the table and the diagram into a draft recommendation

‘DOCUMENT COLOURS FOR ENG 5’

MARINES SIGNAL LIGHTS COLOURS

FILE: *draft\_recommendation\_on\_colours\_for ENG5.docx*

It consists of a single page, a table with the colour boundaries and two diagrams showing the colour regions.

There is no new content in the draft except a proposal for the green boundary regarding high power green LED lights.

## New guideline

I propose to move some of the content of E-200, vertical divergence 1065 and the leading light documents into a new guideline.

I started with this guideline. It is called

FRAGMENTARY DRAFT

MARINE SIGNAL LIGHTS; CALCULATION OF LUMINOUS INTENSITY AND RANGE

FILE: *Guideline\_Intensity\_Calculations\_2016\_09\_15.docx*

# References

1. *ENG5-9.20.2 draft\_recommendation\_on\_luminous\_range\_forENG5.docx*
2. *ENG5-9.20.3 draft\_recommendation\_on\_colours\_for ENG5.docx*
3. *ENG5-9.20.1 draft\_Guideline\_Intensity\_Calculations\_2016\_09\_15.docx*

# Action requested of the Committee

The Committee is requested to work on the three input papers.

1. Input document number, to be assigned by the Committee Secretary [↑](#footnote-ref-1)
2. Leave open if uncertain [↑](#footnote-ref-2)