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| From: ARM Committee | ENG7-9.8  Formerly ARM6-12.1.15 |
| To: ENG Committee | 28 April 2017 |

LIAISON NOTE

Disparity in versions of IALA Guideline 1041

# Introduction

The ARM Committee received an input document (ARM6-3.2.10) from the Norwegian Coastal Administration (NCA). This highlighted fundamental differences in the way in which angles in sector lights should be calculated from one edition (2), to the next addition (3).

# NCA Issues

The issues from the NCA are:

Guidance on the method for determining sector limits is given in Guideline 1041 Ed.2 para 5.4.4. To wit:



In the newest guideline 1041 Ed.3 12.7 and 14.5, the following information is provided:



And:



# Discussion

There is a shift in principles for determining sector boundary bearings (sector limit) from Ed.2 to Ed.3. Paragraph 5.4.4 in Ed.2 is considered to give a safe and proper definition/verification of the sector limit(s). Sector limits of red/green boundaries are defined at a 50/50 mix of red and green.

Between white and coloured lights, the sector limit is defined at full intensity of the coloured light (clear coloured red or green). For white sectors, this is in line with Ed.3 para 12.7, which have the full angle of uncertainty (mixed colours) within the safe sector (white).

In Ed. 3 para 14.5 (last section) this definition is *not* used: here the definition is defined as a 50/50 mix of white and red/green.

For the safety of navigation a safe sector should include the entire angle of uncertainty, which is stated in the guideline in paragraph 12.7, figure 26. This results in a larger safety margin for the mariner as the hazardous sector is clearly identified. Therefore, the sector boundary should **not** be calculated as a mean between white light and coloured light, since that would leave half the angle of uncertainty outside the boundary.

NCA proposed and the ARM Committee agreed that the principles from Ed.2 para 5.4.4 and Ed.3 para 12.7 are reflected in Ed.3 para 14.5.

# Action requested

The ENG Committee is requested to amend Guideline 1041 in order that the principles from Ed.2 para 5.4.4 and Ed.3 para 12.7 are reflected in Ed.3 para 14.5.

If needed the ENG Committee can liaise with the ARM Committee intersessionally by contacting Mr. Martin Bransby.