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| From: ENG Committee | ARM10-3.13 |
| To: ARM Committee | 03 October 2019 |

LIAISON NOTE

Vertical Divergence of Light for Marking Mooring Buoys

# Introduction

The ENG committee receive Liaison Note ENG10-3.1.5 from the ARM Committee on a request from the French authority to consider the marking of mooring buoys (ARM9-3.1).

ARM decided marking of mooring buoy will be take into consideration in the further revision of the MBS.

As a preliminary remark, the ARM Committee notes, that if a mooring buoy interferes with other navigational marks, the preferred mark used for mooring buoys should be a special mark.

Due to the inclination of mooring buoys under tension, ARM committee raises the issue regarding the vertical divergence of the light.

# Discussion

The ENG committee have considered the following points from ARM and provided responses:

1. Consider what vertical divergence would be the most appropriate for this case.
   1. The ENG Committee consider the case that under tension the buoy could heel up to forty-five degrees. However, this would be when a vessel is moored and therefore the vessel would be displaying its own navigational lights, such that a light on the mooring buoy would not be in use or would have negligible effect.
2. Submit to ARM committee the maximum existing vertical divergence.
   1. The ENG Committee assume that this is in reference to available lanterns from Industrial Members. There are lanterns that are available up to thirty degrees vertical divergence to 50% intensity as per IALA Guideline 1065.
3. Consider if it’s possible to increase the maximum vertical divergence, or if other technical options might have similar vertical effect as with the old incandescent lamp bulbs with acrylic lens (which had a illumination from the top of the lantern).
   1. The ENG Committee consider that it would be possible to increase the vertical divergence, but the ARM Committee would need to provide the navigational requirement such that an Industrial Member could meet the specification.

# Action Requested

The ARM Committee are requested to:

1. Note the above responses; and
2. Provide further clarity to ENG on the navigational requirements if necessary.