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| **From:** | ENG Committee | ARM20-9.1.2  (ENG19-9.2.1.2) |
| **To:** | ARM Committee | 25 October 2024 |

**LIAISON NOTE**

**Review of Recommendation R0130 on Categorisation and Availability Objectives for Short Range Aids to Navigation**

# introduction

The ARM Committee are working on *Task 1.4.11 -* Develop measures for and a method to monitor waterway risk and *Task 1.5.1* – Develop a Recommendation and Guideline consolidating content from Recommendation R0130, Guidelines G1035, G1004 and the NAVGUIDE.

# Discussion

At ARM19, the ARM committee commenced a review of Recommendation R0130 on Categorisation and Availability Objectives for Short Range Aids to Navigation. This includes the development of new guidance on the qualitative effectiveness of AtoN as well as the performance of a ‘system of AtoN’ (in terms of the performance of a number of individual AtoN in a waterway).

As ARM pursues completion of these tasks, the committee recognizes that changes to R0130 may impact upon G1035 on Availability and Reliability of Aids to Navigation - Theory and Examples.

# Action requested

The ENG Committee was requested to provide input to the ARM committee to the following terms:

1. ‘system’:
2. ‘system of AtoN’ and
3. ‘system of aids’

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| **System**  The definition of an AtoN was “***a device or system*** *external to a vessel that is designed and operated to enhance [improve] the safe and efficient navigation of vessels and/or vessel traffic”*  The following non-exhaustive list can be fitted onto an AtoN:   * Visual light signals * Audible (sound) signals * Radionavigation equipment * Satellite based positioning systems   Taken in totality, an AtoN is a system of individual components which operates together to enhance the safe and efficient navigation of vessels. |

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| **System of AtoN/System of aids**  With reference to R0130 (O130) CATEGORISATION AND AVAILABILITY OBJECTIVES FOR SHORT RANGE AIDS TO NAVIGATION  **ATON**: AtoN is mentioned in the document shall also mean a system of AtoN.  **SYSTEM OF ATON** A group of complementary short range AtoN intended to collectively provide sufficient and timely information with which to safely navigate vessels within and through a waterway.  **SYSTEM OF AIDS**: This is to be read as “SYSTEM OF ATON”.  The Competent Authority can decide to deploy various different types of AtoNs in an area, for example, RACONs, AIS, lateral marks, leading lines, sector lights etc, for the provision of AtoN for fairways and channels for different classes of vessels. The AtoNs can be taken as a system of AtoN/system of aids which helps the mariner to plan the passage of his vessel. The following illustration from the IALA MBS is a good example:    In this example, the system of AtoN will be made up of multiple AtoNs. However, depending on the risk assessment done, the different AtoN be determined as different categories. |