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IEC TC 80 WG 15

**IEC-WG15 Meeting 15**

**19-September-2014**



**INTERNATIONAL ELECTROTECHNICAL COMMISSION**

**TECHNICAL COMMITTE 80: Maritime navigation and radiocommunication equipment and systems. Working Group 15 (AIS).**

**Liaison note to IEC TC80 Secretariat, IALA ENAV WG2**

# AIS AtoN Status Bits and Dimension ABCD values for AIS AtoN Station

**Discussion**

During the 15th meeting of Working Group 15, with representatives from WG6 and NMEA, the use of AIS AtoN Status bits and AtoN dimension values were discussed resulting in the following recommendations.

# AtoN Status Bits

Since AIS AtoN’s often sleep and have receivers inactive, it can be difficult to know when to communicate with them. It was noted that this could be accomplished more easily if message 21 contained a status bit that indicated whether a receiver is present, and whether it is active. Additionally, there is now way to indicate an AtoN that is off position and adrift or missing.

AtoN Status bits default to page 7 for Lamp & RACON status and AtoN health bit page. No other pages have been designated. It is requested to consider adding a page 6 to indicate receiver present and active, off-position aid adrift or missing, and GNSS anomalies.

When the AtoN is off position it should generate an additional Message 21 (virtual AtoN) at the assigned position. This may also be broadcast via shore as a synthetic AtoN with the Missing bit set. The page 6 then could be used to correlate the two AtoNs using the Missing symbol from IMO SN1\Circ. 243 Rev1.

AtoN Status Bits Page 6 format:



# AtoN Dimensions (ABCD values)

In discussions about AtoN dimension ABCD values for test it was noted that ITU-R M.1371-5 Table 73 Dimension/Reference for Position Parameter erroneously refers to diagram Fig 42 (Emission Mask) and footnote 1 provides guidance to designate ABCD values from Fig 41. It was also noted that IALA A-126 provides guidance and an additional figure to determine AtoN dimensions with ABCD values. Neither reference effectively provides guidance to address non-circular ABCD values. Instructions in IALA A-126 conflict with instructions in ITU-R M.1371-5. Request clarification of designating ABCD values for non-circular dimensions.

# Action requested of the TC80 secretariat

To have the TC 80 secretariat liaise AtoN Dimensioning and potential new use of AtoN Status bits with IALA ENAV WG2 for their action.

# Action requested of IALA ENAV WG2

IALA ENAV Committee is invited to review the items in the liaison note and advise IEC TC 80 WG15 accordingly.