Liaison Note to ITU-R WP 5B

Regarding ITU-R M. 1371-4 clarifications on Tx power level for AIS Class B “SO”

# Introduction

IEC TC 80 WG 15 is currently developing the test standard for AIS Class B “SO” and requests clarification regarding the high Tx power level used.

IALA e-NAV Committee is working towards the draft revision of Recommendation ITU-R M.1371-4 to be provided in November 2011 to ITU-R WP 5B. Prior to this submission IEC needs the confirmation that the Tx power level of 5 W will be accepted by ITU-R WP 5B.

**Regarding the TX power level and receiver and transmitter characteristics of Class B “SO”**:

The IALA e-NAV Committee reviewed the request by IEC TC 80 WG 15 for Class B “SO” to have power levels similar to a Class B “CS” unit (2W). However, administrations feel strongly that a Class B “SO” device should be more than a Class B “CS” with capability to manage these “semi” professional devices on the VDL differently than either Class A or Class B “CS”. In general, administrations plan to mandate, or require, these devices therefore the business model for these devices does not need to be the same as Class B “CS”.

Understanding that the Class B “SO” will not need to be a Class B “CS”, it also does not necessarily need to be a Class A unit regarding power. IALA e-NAV Committee has concluded that 5 W high Tx power level provides an acceptable level of performance with minimal impact on the VDL. Therefore IALA recommends ITU-R WP 5B to accept this power level prior to the revision of Recommendation ITU-R M.1371-4. IALA e-NAV will submit a draft revision of Recommendation ITU-R M. 1371-4 at the November meeting.

We understand that this must be accomplished before the IEC CDV resolution stage of Class B “SO” and before the revision of Recommendation ITU-R M. 1371-4 to meet this deadline.

IEC TC 80 WG 15 proposes section 2.1.1.2, Annex 1 in ITU-R M.1371-4 specifies that Annex 2 apply to Class-B”SO” and Annex 7 to Class-B”CS”. However, due to the desired low-cost for Class-B”SO”, the receiver characteristics should conform to Annex 7 (relaxed requirements) while the transmitter should conform to Annex 2 to maintain high level of VDL protection.

IALA e-NAV committee supports this proposal.

# Action requested

ITU-R WP 5B is requested to confirm the high Tx power level of 5 W for AIS Class B “SO” and inform IEC TC 80 WG 15 and IALA e-NAV Committee about its decision.