

Paper for Consideration by TSMAD27

Amendment to S58

<b>Submitted by:</b>	TSMAD S58 SWG
<b>Executive Summary:</b>	Amendments to S58
<b>Related Documents:</b>	S58 draft edition 5.0; HSSC3-05
<b>Related Projects:</b>	-

**Introduction / Background**

In response to HSSC5 paper 05.1H(attached) from Finland, TSMAD Chair has requested that TSMAD review the proposed classification of test 54a and 54b relating to normally land based objects being captured within navigable waters.

TSMAD S-58 Sub Working have reviewed the tests and propose removing BUISGL from the critical tests 54a and 54b and propose introducing a new test 54c specifically for BUISGL classified as a warning.

HSSC5 endorsed the draft edition 5.0.0 of S-58 Recommended ENC Validation Checks including the minor amendments proposed by the drafting group – subject also to the TSMAD 27 review.

**reviewAnalysis/Discussion**

Original S-58 Edt 4.2 test:-

54	<p>Check for any CRANES, BUISGL, FORSTC, LNDMRK or SILTNK object, and for any DAYMAR object which is not a slave in a master/slave relationship:</p> <ul style="list-style-type: none"> <li>• if it is of type Area, that it is covered by a LNDARE, BRIDGE, FLODOC, OFSPLF or PONTON object of type Area,</li> <li>• if it is of type Point, that:</li> <li>• it is situated within a LNDARE, BRIDGE, FLODOC, OFSPLF or PONTON object of type Area, or</li> </ul> <p>- it is coincident with one LNDARE, PILPNT, PYLONS, OFSPLF, SLCONS or UWTROC object of type Point, or</p> <p>- it is situated on a COALNE, DAMCON, BRIDGE, FLODOC, LNDARE, PONTON or SLCONS object of type Line.</p>	Logical consistency	W
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Initial Proposed S-58 Edt 5.0 tests which lead to HSSC5 paper 05.1H

54a	For each CRANES, BUISGL, FORSTC, LNDMRK or SILTNK object of type area that is not WITHIN a LNDARE, BRIDGE, FLODOC, OFSPLF or PONTON object of type area.	Logical consistency	C
54b	For each CRANES, BUISGL, FORSTC, LNDMRK, DAYMAR or SILTNK object of type point that is not WITHIN a LNDARE, BRIDGE, FLODOC, OFSPLF or PONTON object of type area OR it does not EQUAL a LNDARE, PILPNT, PYLONS, OFSPLF, SLCONS or UWTROC of type point OR it is not COINCIDENT with a COALNE, DAMCON, BRIDGE, FLODOC, LNDARE, PONTON or SLCONS of type line.	Logical consistency	C

These tests would result in a critical error reported when a BUISGL has been used to encode an all weather terminal over navigable water.

Final Proposed S-58 Edt 5.0 tests following review by TSMAD S-58 SWG :-

54a	For each CRANES, FORSTC, LNDMRK or SILTNK object of type area that is not WITHIN a LNDARE, BRIDGE, FLODOC, OFSPLF or PONTON object of type area.	Logical consistency	C
54b	For each CRANES, FORSTC, LNDMRK, DAYMAR or SILTNK object of type point that is not WITHIN a LNDARE, BRIDGE, FLODOC, OFSPLF or PONTON object of type area OR it does not EQUAL a LNDARE, PILPNT, PYLONS, OFSPLF, SLCONS or UWTRC of type point OR it is not COINCIDENT with a COALNE, DAMCON, BRIDGE, FLODOC, LNDARE, PONTON or SLCONS of type line.	Logical consistency	C
54c	For each BUISGL object of type area that is not WITHIN a LNDARE, BRIDGE, FLODOC, HRBFAC, OFSPLF or PONTON object of type area OR for each BUISGL object of type point that is not WITHIN a LNDARE, BRIDGE, FLODOC, OFSPLF or PONTON object of type area OR it does not EQUAL a LNDARE, PILPNT, PYLONS, OFSPLF, SLCONS or UWTRC of type point OR it is not COINCIDENT with a COALNE, DAMCON, BRIDGE, FLODOC, LNDARE, PONTON or SLCONS of type line.	Logical consistency	W

#### Justification and Impacts

The amendment of tests 54a and 54b and the introduction of test 54c will result in potentially dangerous encoding being identified and reported as critical but only result in a warning for those instances where a covered terminal has been encoding in accordance with the guidance in the UOC.

#### Action Required of TSMAD

The TSMAD is invited :-

- to discuss and endorse these changes to S-58
- to consider clarification of the current guidance for encoding covered terminal in S57 Appendix B.1 Annex A (Use of the Object Catalogue) 4.6.1
- to consider alternative methods of encoding for S101