

Paper for Consideration by ENCWG2**Issues in screen samples of S-64 ed 3.0.1 - Centred symbols visible or not**

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Executive Summary:	This paper is about centred symbols being visible or not in the screen samples of S-64 ed 3.0.1
Related Documents:	S-64 ed 3.0.1
Related Projects:	Recently published new editions of S-52 PresLib 4.0.1 and S-64 ed 3.0.1

Introduction / Background

1. Our understanding is that newest published versions are S-52 PresLib ed 4.0.1 and S-64 ed 3.0.1, both from 2015.
2. In our experience some of the centred symbols, especially for test charts AA5STNDR.000 and AA5OTHER.000, are not visible when the charts are drawn at their compilation scales.
3. The rule for drawing of centred symbols is in S-52 PresLib clause 8.5. Centred symbol shall follow the given offset from the pivot point. The location of pivot point is subject to manufacturer algorithm as the requirement is that manufacturer shall implement a non-standardized algorithm to calculate the pivot point of the area taken into account possible holes, concaves, truncations, etc. related to the area itself. Finally the rule says that if the centre of the bounding box of the centred symbol is not inside the area then the centred symbols shall not be drawn.
4. The result of the above drawing algorithm is not exact between all ECDIS equipment. The type approval, vetting, quality control, etc. inspectors are comparing target ECDIS and screen samples available in S-64. The current attitude of inspectors in these comparisons is no deviations acceptable. This is causing a lot of troubles as we need to educate very deep details of S-52 PresLib to these inspectors in order that they can understand when a symbol is visible and when not visible.

Conclusions

5. These comparison issues could be avoided if the textual instruction would hint to the inspector that the screen samples are not absolutely true for visibility of centred symbols of the areas.

Recommendations

6. We propose to add a small note for tests 3.1.2 (pictures 1 & 2), 3.1.3 (picture 1), 3.1.4 (picture 3), 3.1.5 (pictures 2 & 4) and 3.1.6 (pictures 2, 3, 4, 5, 6 & 7)

NOTE: There is no exact standardized method where to draw a centred symbol for an area object. Therefore depending of the ECDIS and selected drawing scale a centred symbol may be visible or may not be visible related to its area. If the centred symbol is visible, the centre of it should be inside the related area. If the chart is zoomed in, an originally not visible centred symbol should become visible.

Action Required of ENCWG

The ENCWG is invited to:

- a) note the issue presented in this paper
- b) consider what is the best way forward and act based on that decision