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| From: VTS Committee | VTS47-9.1.1.2 |
| To: ENAV Committee | 29 February 2019 |

LIAISON NOTE

Guideline to Support Recommendation R1014 - Portrayal of VTS Information and Data

# Introduction

Task 2.1.1 of the VTS Committee is to ‘Develop Guideline on the Portrayal of VTS Information and Data (both operational and technical aspects)’. This work was assigned to WG 2 – Technology and commenced at VTS45. When further considered at VTS46 it was concluded that much of the guidance required was already existing in Guideline G1105 on ‘Shore Side Portrayal Ensuring Harmonisation with e-Navigation Related Information’. Rather than replicate this information in an additional Guideline the WG undertook a gap analysis to identify additional guidance that may be required to fully meet the recommendations in R1014.

This liaison note seeks input from the ENAV Committee on how best to progress a revision of G1105 to provide this additional guidance.

# Proposed Revision of G1105 to meet requirements of R1014

Recommendation R1014 sets out 11 key recommendations relating to the Portrayal of VTS Information and Data. A Guideline is required to provide more detailed information on the implementation of these recommendations. The VTS Committee initially proposed the development of a new guideline. However, having reviewed Guideline G1105, which was produced by the ENAV Committee it was concluded that most of the required guidance was available in this document.

A Gap Analysis identified some areas where additional guidance was required but this can best be achieved by revision of G1105 rather than the generation of a new guideline.

The Gap Analysis identified the following gaps in relation to the 11 Recommendations in R1014.

**Recommendation 1 - VTS portrayal should focus on VTS tasks.**

While not specifically referenced this is very clearly allowed for in G1105. It was felt that some additional content on handling of emergencies and portrayal of Maritime Safety Information and Met-Hydro data could be added.

**Recommendation 2 - Human‐centered design and an ergonomic approach should be followed. Specifically:**

**a. The portrayal should facilitate achieving an appropriate situational awareness and support effective decision‐making.**

**b. The portrayal should be designed for efficiency of operation and avoidance of information overload.**

**c. The portrayal should present information to the user intuitively.**

HCD is not referenced in G1105. There is IMO guidance in MSC.1/Circ.1512 which could be linked and extracts inserted. There is further guidance emerging from NCSR6. Physical conditions and ergonomics are very important as are workload, shift arrangements and reserve capacity.

**Recommendation 3 - The portrayal should allow a user to control the system, input data and take action efficiently.**

It is considered that this could be dealt with by the addition of some additional text to Section 6 of G1105.

**Recommendation 4 - Portrayal in VTS should, as far as possible, be harmonised with portrayal on‐board.**

This is already dealt with in G1105

**Recommendation 5 - Where possible, the portrayal should indicate invalid and erroneous user input**

This should be added to G1105

**Recommendation 6 - The portrayal should be able to display and log significant events.**

This should be added to G1105 and include the potential for Maritime Safety Information and other notes on screen.

**Recommendation 7 - The portrayal should support the playback of recorded data.**

This should be added to G1105

**Recommendation 8 - Where possible, the portrayal should indicate data quality.**

This should be added to G1105

**Recommendation 9 - The portrayal should be configurable to satisfy operational tasks and needs.**

This is dealt with in G1105

**Recommendation 10 - The portrayal should be configurable to handle local regulations and conditions.**

This is dealt with in G1105

**Recommendation 11 - Where possible, the design of portrayal should be independent of specific data processing, sensor hardware and software.**

This is dealt with in G1105

In addition to the above some additional technology could be considered in G1105 including VHF, EPIRB, Mobile AtoN, VDES and Planning Systems. Consideration should also be given to a section examining what represents ‘good portrayal’.

# Action requested

The secretariat is requested to:

1. Forward this document to ENAV committee

The ENAV Committee is requested to:

1. Consider the approach to providing guidance on R1014 set out above.
2. Advise if the ENAV Committee is in a position to review G1105 and provide the additional guidance required or if the VTS Committee should undertake a review of the document.
3. Advise on the timescale for completion if undertaking the review.