ENG19-3.1.2.2

Input paper for the following Committee(s): check as appropriate Purpose of paper:

**□** ARM **□** ENG **□** PAP **□** Input

X DTEC **□** VTS **□** Information

Agenda item [[1]](#footnote-1) n.n

Technical Domain / Task Number 2 …………………………………

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Recognition of augmentation systems in the WWRNS

# Summary

This cover note is intended to discuss and amend the “NCSR 12 recognition of augmentation systems in the World-wide radionavigation systems” and forward it to ENG19 committee for further development

## Purpose of the document

This document is a cover note for the input “DTEC3-5.2.0.2.1 - NCSR 12 recognition of augmentation systems in the World-wide radionavigation systems” to be discussed and forwarded to the ENG19 committee for further discussion.

## Related documents

* DTEC3-5.2.0.2.1 - NCSR 12 recognition of augmentation systems in the World-wide radionavigation systems
* IMO MSC 107/17/7
* IMO MSC 107/20
* ENG17 input paper: “Development of Procedures and Requirements for the Recognition of Augmentation Systems in the WWRNS”
* ENG18 input paper: “Discussion on Procedures and Requirements for the Recognition of Augmentation Systems in the WWRNS”

# Background

Following consideration of a proposal from Australia et.al to IMO MSC (MSC 107/17/7), MSC 107 agreed to include in its post-biennial agenda (MSC 107/20 paragraphs 17.58.1 and .2 refer) the following:

1. *an output on "Development of procedures and requirements for the recognition of augmentation systems in the World-wide radionavigation system", with one session needed to complete the item; and*
2. *an output on "**Development of performance standards for dual frequency multi-constellation satellite-based augmentation systems (DFMC SBAS) and advanced receiver autonomous integrity monitoring (ARAIM) in shipborne radionavigation receivers", with two sessions needed to complete the item.*

*assigning the NCSR Sub-Committee as the associated organ. In doing so, the Committee agreed that the performance standards for DFMC SBAS and ARAIM in shipborne radionavigation receivers should be developed only after the approval/adoption of the necessary procedures and requirements for the recognition of augmentation systems*.

In order to facilitate the consecution of the first output requested by IMO, it was presented in ENG17 the input paper “Development of Procedures and Requirements for the Recognition of Augmentation Systems in the WWRNS” to introduce the topic in ENG WG2 requesting also the support of their members. This effort was followed by the presentation of the subsequent input paper “Discussion on Procedures and Requirements for the Recognition of Augmentation Systems in the WWRNS” in ENG18, being discussed during this committee the main objective of this recognition as well as the interest of IALA members in supporting this activity. Thus, interested contributors within the working group approved the work plan to develop the document which entailed two intersessional meetings before ENG19 committee. As a result, it has been developed the document “NCSR 12 recognition of augmentation systems in the World-wide radionavigation systems”.

# Discussion

During the sessions of the ENG committee and intersessional sessions, the document “NCSR 12 recognition of augmentation systems in the World-wide radionavigation systems” was developed.

At the moment, output 1 "Development of procedures and requirements for the recognition of augmentation systems in the World-wide radionavigation system” is on the agenda of the next IMO NCSR meeting while output 2 “Development of performance standards for dual frequency multi-constellation satellite-based augmentation systems (DFMC SBAS) and advanced receiver autonomous integrity monitoring (ARAIM) in shipborne radionavigation receivers" not. Indeed, output 2 is subordinated to the approval/adoption of output 1.

Having output 1 on the agenda of IMO NCSR is an excellent chance to embed the procedures and requirements for the recognition of augmentation systems in a revision of IMO resolution A.1046(27), since this resolution is specific for the recognition/acknowledgement of WWRNS systems, or on the contrary to embed the proposed procedures and requirements to recognise augmentation systems in a new ad-hoc resolution. Both options might result that all current augmentation systems like DGPS and SBAS should be recognised.

Revoking IMO resolution A.1046 is an option but then there should be made special arrangements for already approved satellite navigation systems. This might result in a long discussion at IMO.

# Action requested of the Committee

The Committee is requested to:

1. Discuss a possible way forward;
2. Enhance document” NCSR 12 recognition of augmentation systems in the World-wide radionavigation systems” according the discussion;
3. Forward the document and a possible way forward to the ENG19 committee for further discussion.

1. Leave open if uncertain [↑](#footnote-ref-1)