

**2<sup>nd</sup> Meeting of the Nautical Information Provision Working Group (NIPWG)  
21–24 March 2016, IHB Monaco, Monaco**

**Paper for Consideration by NIPWG**

**Outcome of IMO/NCSR3**

<b>Submitted by:</b>	IHB
<b>Executive Summary:</b>	This paper reports the outcome of the 3 <sup>rd</sup> session of the IMO Sub-committee on Navigation, Communications and Search and Rescue (NCSR) (29 Feb – 4 Mar 2016) which may affect the activities and work plan of NIPWG.
<b>Related Documents:</b>	HSSC7-07.2A NIPWG Work Plan.
<b>Related Projects:</b>	Developments related to S-100 and S-100-based Product Specifications

**Introduction / Background**

1. At its 7<sup>th</sup> meeting, the IHO Hydrographic Standards and Services Committee (HSSC) considered the IHB report on IMO activities affecting HSSC (including e-navigation) (HSSC7-07.2A) and agreed on reflecting the relevant issues (harmonized display of navigation information, e-navigation, ECDIS performance tests, maritime cybersecurity, Polar Code and unique identifiers) in the work plans of the relevant HSSC WGs.

2. In particular, a task on developing “high level specifications for a combined Marine Service Portfolio (MSP) covering the provision of hydrographic services to mariners in accordance with the IMO e-navigation strategy implementation plan” was included in the NIWPG work plan with the following work items:

- G3: Rules and guidelines for displaying nautical information in ECDIS and in combined Marine Service Portfolios;
- G3.2: Develop guidelines showing how navigation information received by communications equipment can be displayed in a harmonized way and what equipment functionality is necessary.

3. This paper reports on the outcome of the 3<sup>rd</sup> session of the IMO Sub-committee on Navigation, Communications and Search and Rescue (NCSR) (29 Feb – 4 Mar 2016) related to that task.

**Analysis/Discussion**

4. NCSR 3 considered four agenda items related to the harmonized display of navigation information of relevance to the development of the IHO S-100 framework:

- Item 6: Additional modules to the Revised Performance Standards for Integrated Navigations Systems (INS) (resolution MSC.252(83)) relating to the harmonization of bridge design and display of information;
- Item 9: Guidelines for the harmonized display of navigation information received via communications equipment;
- Item 13: Interconnection of NAVTEX and Inmarsat SafetyNET receivers and their display on Integrated Navigation Display Systems;
- Item 28: Development of guidance on the Standardized (or S) Mode of operation of navigation equipment (under any other business<sup>1</sup>).

5. The list of documents which were submitted in support of these agenda items is provided in Annex A. All documents are available on the IMODOCs web site at <https://webaccounts.imo.org/>.

<sup>1</sup> This item was considered under any other business because the relevant output is to be addressed in the post-biennial agenda of the Sub-committee (2018-2019).

6. IHB submitted on behalf of the IHO a paper (NCSR 3/9) on the contribution of the S-100 framework to the harmonized display of navigation information in support of item 9. The preparation of this paper had been initiated by the Chair of the S-100WG in accordance with action HSSC7/36. It highlighted in particular the development of the S-100 Interoperability Specification.

7. NCSR 3 agreed on the following arrangements for progressing the relevant planned outputs:

- Item 6: the Sub-Committee agreed to establish a Correspondence Group on the Development of additional modules to the INS Performance standards, under the coordination of China, to develop the new draft modules to the INS Performance standards, taking into account documents NCSR 3/6, NCSR 3/6/1 and NCSR 3/6/2, as well as any relevant comments provided during the discussions, and submit a report to NCSR 4 for consideration. Australia suggested that those interested in developing S-Mode should also participate in the correspondence group, given the interrelation between the INS modules to be developed and the future developments on S-Mode.
- Item 9: NCSR recognized the importance of harmonizing the display of information on board ships to reduce human errors and to contribute to the safety of navigation. Expectations that the output would provide a simplified and more user-friendly display of Marine Safety Information were expressed. The need for coordination between related activities conducted by IHO and IMO was highlighted, including the opportunity of activating the IMO/IHO Harmonization Group on Data Modelling, which had been previously authorized by MSC 90. The Sub-Committee invited Norway to coordinate a joint proposal from interested Member States and international organizations to NCSR 4 containing draft Guidelines for the harmonized display of navigation information received via communications equipment.
- Item 13: NCSR considered the information provided by the United States (NCSR 3/13) proposing amendments to the revised performance standards for narrow-band direct-printing telegraph equipment for the reception of navigational and meteorological warnings and urgent information to ships (resolution MSC.148(77)), the revised performance standards for enhanced group call (EGC) equipment (resolution MSC.306(87)) and the revised performance standards for integrated navigation systems (INS) (resolution MSC.252(83)), related to interconnection, bridge alert management and display of NAVTEX and SafetyNET warnings on navigation display systems. The Sub-Committee agreed to invite the Maritime Safety Committee to extend the target completion year for this output to 2017 and invited the United States and interested Member States and/or organizations, if required, to submit revised proposals, as appropriate, to NCSR 4.

8. Based on the dates proposed for NCSR 4 (6 to 10 March 2017) and in accordance with the Guidelines on the organization and method of work of the Maritime Safety Committee and the Marine Environment Protection Committee and their subsidiary bodies (MSC-MEPC.1/Circ.4/Rev.4), the timeline for submission of papers should be as follows:

- bulky documents (those containing more than six pages), by **Friday, 2 December 2016** (not later than 13 weeks before the opening of the session);
- non-bulky documents (those containing six pages or fewer) and also bulky information documents, by **Friday, 30 December 2016** (not later than 9 weeks before the opening of the session; and
- documents commenting on those referred above, containing four pages or fewer, by **Friday, 13 January 2017** (not later than 7 weeks before the opening of the relevant session).

### Recommendations

9. It is recommended that NIPWG considers and agrees its contribution to the IMO outputs related to its work plan taking into account the outcome of NCSR 3 and the timeline for the preparation of NCSR 4.

### Action Required of NIPWG

10. The NIPWG is invited to:
- a. **note** the report,
  - b. **consider** the recommendation in paragraph 9, and
  - c. **take any other actions** considered necessary.

## **Annex A**

### **List of documents presented to NCSR 3 in relation with the harmonized display of navigation information**

NCSR 3/6 - Progress on standards development by the IEC - IEC

NCSR 3/6/1 - Proposal on drafting new modules to Performance standards for integrated navigation system (INS) (resolution MSC.252(83)) - China

NCSR 3/6/2 - Proposals to draft additional modules to the Revised Performance standards for Integrated Navigations Systems (INS) (resolution MSC.252(83)) - Norway

NCSR 3/9 - Contribution of the IHO S-100 Framework - IHO

NCSR 3/9/1 - Proposals for the development of Guidelines for the harmonized display of navigation information received via communications equipment - Norway

NCSR 3/13 - Proposed amendments to resolutions MSC.148(77), MSC.306(87) and MSC.252(83) - United States

NCSR 3/28/1 - Development of guidance on the Standardized (or S) Mode of operation of navigation equipment - Australia, Republic of Korea, InterManager, NI, IAIN, IFSMA, IEC and CIRM

NCSR 3/INF.17 - An International Workshop on the development of guidance on the S-Mode of operation of navigation equipment - Republic of Korea