

**1st Meeting of the S-100 Working Group (S-100WG)
14-18 March 2016, Tokyo, Japan**

Paper for Consideration by S-100WG

Outcome of IMO/NCSR3

Submitted by:	IHB
Executive Summary:	This paper reports the outcome of the 3 rd 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 S-100WG.
Related Documents:	HSSC7-07.2A S-100WG Work Plan.
Related Projects:	Developments related to S-100 and S-100-based Product Specifications

Introduction / Background

- At its 7th meeting, the IHO Hydrographic Standards and Services Committee (HSCC) 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.
- This paper reports on the outcome of the 3rd 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 the S-100WG (see action HSSC7/37).

Analysis/Discussion

- NCSR 3 considered four agenda items related to the harmonized display of navigation information:
 - 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 business¹).
- 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/>.
- 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. The paper highlighted in particular the development of the S-100 Interoperability Specification.
- 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,

¹ 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).

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.

7. Under agenda item "Any other business", Ukraine submitted an information paper (NCSR 3/INF.15) on ECDIS-AIS linking with VHF DSC for simplification of addressed VHF radiocommunication and increasing DSC efficiency. The Sub-committee noted the paper which reports on the intention of Ukraine to submit a proposal for a new output to the 96th session of the Maritime Safety Committee, namely to consider revising the IMO Performance Standards for ECDIS. This intention may offer an opportunity to include in the proposed new output the consideration of any amendment that might be required for the use of S-101-based Electronic Navigational Charts (ENC) and the possible simultaneous display of other data products.

8. The 4th session of the NCSR is tentatively planned from 6 to 10 March 2017. 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 the S-100WG considers the impact of the outcome of NCSR 3 on its activities.

Action Required of S-100WG

10. The S-100WG 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