



Hydrographic Services and Standards Committee

HSSC-8

November 2016

IMO activities affecting HSSC

Agenda item 7.2

IHO Secretariat

IMO activities since HSSC-7

✦ Meetings:

- NCSR 3, 29 February - 4 March 2016
- MSC 96, 11 - 20 May 2016
- Outcomes: IHO CL 13/2016, 24/2016

✦ Subjects relevant to HSSC:

- E-navigation
- ECDIS matters
- Maritime cybersecurity



E-navigation

✦ Status of agreed outputs (1/2)

- Guidelines on harmonization of test beds reporting
 - Completed (MSC.1/Circ.1494 dated 21 November 2014)
- Guideline on software quality assurance and human centred design for e-navigation
 - Completed (MSC.1/Circ.1512 dated 13 July 2015)
- Additional modules to the Revised Performance standards for Integrated Navigation Systems (INS) (resolution MSC.252(83)) relating to the harmonization of bridge design and display of information
 - Target date: 2017 (NCSR 4)
 - Correspondence Group coordinated by China
 - IHO input coordinated by the Secretariat in liaison with the Chairs of ENCWG, NIPWG, S-100WG, WWNWS-SC and S-124CG (2nd round closed on 20 Sep)



E-navigation

✦ Status of agreed outputs (2/2)

- Guidelines for the harmonized display of navigation information received via communications equipment
 - Target date: 2017 (NCSR 4)
 - Joint proposal from “interested Member Governments and international organizations” coordinated by Norway
 - IHO input coordinated by the Chair of NIPWG
- Revised guidelines and criteria for ship reporting systems (resolution MSC.43(64))
 - Target date: 2017 (NCSR 4)
 - Interested Member Governments and organizations to submit proposals
 - Test beds in progress considering S-100 versus FAL options (EDIFACT, XML, Excel)
 - Consideration of the relation with the development of a single window system



E-navigation

- ✦ Related output (measures to improve navigational safety)
 - Interconnection of NAVTEX and Inmarsat SafetyNET receivers and their display on Integrated Navigation Display Systems
 - Amendments to:
 - ✓ 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))
 - ✓ Revised performance standards for enhanced group call (EGC) equipment (resolution MSC.306(87))
 - ✓ Revised performance standards for integrated navigation systems (INS) (resolution MSC.252(83))
 - proposed by USA to NCSR 3 and referred to the IMO-ITU Expert Group
 - Target date extended to 2017 (NCSR 4)
 - Interested Member Governments and/or organizations invited to submit proposals
 - IHO input through the Secretariat in liaison with the Chair of S-100WG and WWNWS-SC



E-navigation

✦ Post-biennial outputs

- Guidelines on standardized modes of operation (S-mode)
 - Target date: 2019 (NCSR)
 - Preparatory workshop convened by the Republic of Korea reported to NCSR 3
 - Draft guidance being developed by Australia/AMSA (see HSSC8-05.3A)
- Guidance on definition and harmonization of the format and structure of Maritime Service Portfolios (MSPs)
 - Target date: 2019 (NCSR)
 - MSC 96 invited the IHO to submit a proposal to the MSC and/or to the NCSR to activate the HGDM, “to work on this issue and include the modalities, e.g. venue and frequency for consideration at a later session of the Committee”
 - IALA workshop on shore-based maritime services in May 2016



E-navigation

- ✦ Progress in developing a submission to NCSR 4 on activating the IMO/IHO Harmonization Group on Data Modelling (HGDM)
 - Revised draft (V2) annexed to HSSC8.07.2B
 - Outcome of the 3rd round of consultation of the potential co-sponsors:
 - no further comment from Australia and CIRM (will not co-sponsor but intend to support at NCSR 4)
 - support from IALA being considered by the IALA Council
 - Outcome of the consultation with the IMO Secretariat:
 - further justification of an intersessional meeting before NCSR 5
 - clear definitions of the deliverables in the work plan
 - adjustment of the timeline (1st HGDM meeting in Sep-Oct 2017)
 - consideration under “Any other business”
- ↳ draft (V3) to be considered by HSSC



E-navigation

- ✦ Progress in developing a submission to NCSR 4 on activating the IMO/IHO Harmonization Group on Data Modelling (HGDM)

- Proposed way forward

- HSSC invited to endorse/amend draft (V3) annexed to HSSC8-07.2C
- HSSC members invited to liaise with their national maritime administrations to consider:
 - ↳ co-sponsoring the submission - deadline: 30 Nov 2016
 - ↳ commenting on the submission - deadline: 20 January 2017
 - ↳ supporting the submission - deadline: NCSR 4
 - ↳ nominating representatives to the HGDM - deadline: NCSR 4
 - ↳ nominating candidates for chairing the HGDM - deadline: NCSR 4



E-navigation

★ Recommendations

- Consider if/how HSSC would wish to be involved in the development of the maritime single window concept
- Consider/confirm arrangements to develop and provide IHO input to relevant on-going and planned outputs (subject to outcome of actions HSSC7/35 & 37)
- Agree/implement the way forward related to the draft submission to NCSR 4 on activating the IMO/IHO Harmonization Group on Data Modelling (HGDM)
- Consider associating the proposed ECDIS/E-navigation Stakeholders' Day with a HGDM meeting (see item 5.1)



ECDIS Matters

- ✦ NCSR 3 agreed to extend by one year, until 31 August 2017, the transition period for upgrading existing ECDIS systems to meet the revised set of IHO standards which came into force on 31 August 2015 for new ECDIS systems
- ✦ Port State Control (PSC) issues referred to the Sub-Committee on Implementation of IMO Instruments (III)
 - ↳ Consideration by III of a proposal to develop PSC guidelines on ECDIS submitted by Australia and supported by the USA
 - ↳ IHO Secretariat is liaising with the Secretariat of the Paris PSC MoU to obtain a copy of their PSC Guidelines on ECDIS and will consider attending III 4 if appropriate (3-7 July 2017)
- ✦ Presentation on “Operational implementation issues for ECDIS” coordinated by INTERTANKO
- ✦ Continuing increase of the number of ships’ reports on ENC/ECDIS Data Presentation and Performance Check



ECDIS Matters

Cumulative number of ECDIS check reports from ships



ECDIS matters

★ Recommendation

- consider the merit of issuing a CL inviting HOs to liaise with their national Maritime Administration and provide feedback on PSC issues related to the carriage and operation of ECDIS, for further consideration by the ENCWG at its next meeting

Note that Member States should ensure that the information on national requirements for ECDIS back-up arrangements using paper charts posted on the IHO website since 2008 is kept current (see IHO CL 61/2015)

Current status: 34 MS provide information; 24 dated 2007

- consider tasking the ENCWG to reflect the requirement for denser contour lines in ENC in the revision of the guidance for ENC producers (IHO Publication S-65) (see also HSSC8-05.3C)
- consider the future of the ECDIS check data set, subject to the outcome of action HSSC7/38
- provide guidance for the IHO report on ECDIS matters to NCSR 4



Maritime cybersecurity

- ★ MSC 96 approved Interim guidelines on maritime cyber risk management ...
 - ↳ MSC.1/Circ.1526 dated 1 June 2016
- ★ ... and forwarded it to the IMO Facilitation Committee for further consideration and finalization with a view to issuing a FAL/MSC Circular
- ★ Recommendation
 - request the DPSWG to continue monitoring the development of guidance on cybersecurity and advise on appropriate actions within the scope of the IHO



Action required of HSSC

- ✦ Note the report
- ✦ Consider the following recommendations (1/2)
 - consider if/how HSSC would wish to be involved in the development of the maritime single window concept
 - consider/confirm arrangements to develop and provide IHO input to relevant on-going and planned outputs related to e-navigation
 - agree/implement the way forward related to the draft submission to NCSR 4 on activating the IMO/IHO Harmonization Group on Data Modelling (HGDM)
 - consider the merit of issuing a CL inviting HOs to liaise with their national Maritime Administration and provide feedback on PSC issues related to the carriage and operation of ECDIS, for further consideration by the ENCWG at its next meeting



Action required of HSSC

✦ Consider the following recommendations (2/2)

- remind MS to ensure that the information on national requirements for ECDIS back-up arrangements using paper charts is kept current
- consider tasking the ENCWG to reflect the requirement for denser contour lines in ENC in the revision of the guidance for ENC producers (IHO Publication S-65) (see also HSSC8-05.3C)
- consider the future of the ECDIS check data set
- provide guidance for the IHO report on ECDIS matters to NCSR 4
- request the DPSWG to continue monitoring the development of guidance on cybersecurity and advise on appropriate actions within the scope of the IHO

✦ Take any other actions considered necessary

