**LIST of DECISIONS & Actions arising from ENCWG8 2023**

* Draft 2.0 -

| **AGENDA**  **ITEM** | **SUBJECT** | **ACTIONS**  **(in bold, action by)** | **Remarks**  **(Target)** |
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| **Opening and Administrative Arrangements** | | | |
| 1 | Members | **[Action 8/01] IHO Member States** and **Stakeholders** to provide the IHO Sec. with their updates to the ENCWG List of Contacts. | *Permanent* |
| 2 | Agenda and Timetable | **[Decision 8/01] ENCWG8** approved the agenda and associated timetable.  **ENCWG Members** were reminded the election of the chair and the vice chair will take place at the conclusion of the meeting, Therefore WG Members were invited to provide any nominations for these roles to the secretary by the first session of the 2nd day of the meeting. |  |
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| **Approval of ENCWG7 Minutes and Matters arising from Minutes of 15th HSSC Meeting** | | | |
| 3.1 | Minutes of last meeting | **[Decision 8/02] ENCWG** approved the Record of the ENCWG7 meeting without amendment. IHO Sec to upload its final version in the meeting page. |  |
| 3.1 | Progress on ENCWG actions | **[Action 8/02] ENCWG Members** to provide any progress report on actions 06-3, 06.4, 06.6 and 06.10. | completed |
| 3.2 | ECS PT  *(HSSC15/07)* | **ENCWG8 noted** that the establishment of ECS PT under ENCWG, as well as the approval of the TORs for the ECS PT, were accomplished via a circular letter issued in June 2023. |  |
| 3.2 | IMO *(HSSC15/84)* | **[Action 8/03] ENCWG Chair and IHO Sec.** to consider whether the IHO ENC & ECDIS IHO webpage needs to be amended. | *Permanent* |
| 3.2 | S-66, S-67  *(HSSC15/85)* | **ENCWG8 noted** that once amendments are adopted at IMO level, a revision of S-66 specific to S-100 should be considered to include new terms (ENDS, System Database) in the publication.  **[Action 8/04] S-67 Sub-Group** to consider the inclusion of the new terms in the revision of the S-67 *Mariners’ Guide to Accuracy of Depth Information in ENC* and report it to the ENCWG. |  |
| 3.2 | ENCWG TOR | **ENCWG8 noted** that the revised version of ENCWG TORs that was approved by HSSC15. |  |
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| **Work Items and Proposals** | | | |
| 5.1 | Mitigate ENC overlapping issue  *(WENDWG13-10.1)* | **ENCWG8 noted** the presentation on mitigating navigational risk associated with overlapping ENCs for the inverse Band-Scale relationships.  **ENCWG discussed** its considerations regarding the issues, and several key points were outlined below:   * More explicit test cases * The compilation scale to navigation purpose table in S-66 * Must be based on display scale, not navigational purpose. * Alarm/indication display may be different in the two cases |  |
| 5.1 | Mitigate ENC overlapping issue  *(WENDWG13-10.1)* | **The ENCWG8 Chair suggested** a procedural approach for getting input from OEMs by providing the test data sets and scenarios, and then looking at relevant standards for any revisions or clarification necessary.  [**Decision 8/03**] **ENCWG8 agreed** to conduct the investigation of the ENC overlap issue with inverse Scale-Band relationships and submit the result to WENDWG.  **[Action 8/05] ENCWG chair, RENCs(PRIMAR/IC-ENC) and IHO Sec** to develop the test scenario and test data sets building upon the findings of the WENDWG report. Subsequently, **ENCWG chair** to submit the results to the WENDWG meeting.  **ENCWG8 noted** that the **UKHO** will kindly provide their online platform to carry out the survey.  **ENCWG8 noted** that the test scenario developed by the **ENCWG** will be shared with S-101PT to identify the extent of the issue within S-101. | *WENDWG14* |
| 4.6 | ECS PT report | **ENCWG8 noted** the report of the ECS PT including the establishment of the PT and outcomes of the kick-off meeting.  **[Action 8/06] ECS PT chair** to provide a draft PT Work Program (2023-2025) to ENCWG for approval.  **[Action 8/07] ENCWG Chair** to incorporate the ECS PT report into the ENCWG report to be presented during the next HSSC meeting. | *Feb 2024*  *Mar 2024* |
| 5.2.  5.2a | New S-52, S-64 to support Dual Fuel ECDIS | **ENCWG8 recognized** the data quality requirements outlined in IMO MSC.530 (106) and affirmed the commitment to ongoing discussions aimed at identifying potential solutions for S-100 ECDIS in dual fuel mode.  **[Decision 8/04] ENCWG8 agreed to establish a** Task Group to address this issue during the intersectional period.  **Task-Group** members volunteered during the meeting: Tom M(Chair), Jeff W(IHO Sec), Jonathan P(IIC), Thomas R(UKHO), Indonesia, Megan B(USA), Christian M(SHOM), Mikko H(Finland), Elizabeth H, Richard F(Denmark), Alvaro S(Australia), Hannu P(Furuno), Mikus R(PRIMAR) and Olaf(SevenCs)  **ENCWG8 noted** the intentionthat the new edition of S-52 will apply to the S-100 ECDIS for dual fuel mode. The existing S-57 ECDIS will remain unaffected. However, data producer will be impacted as they will need to encode data consistent with S-100 ECDIS requirements in S-57 ENCs as well. |  |
| 4.4 | Cyber security guidance | **[Decision 8/05] ENCWG8** **approved** the draft ENC/ECDIS cyber security guidance document and **agreed** to incorporate it into S-67(or S-66), pending the final decision by HSSC. | *(Ref. HSSC15/33).* |
| 4.3 | S-64 impact assessment | **ENCWG8 noted** the background for the revision of S-64 and **agreed** to conduct an impact assessment to engage a broader range of stakeholders as discussed during HSSC15.  **ENCWG8 noted** that the IHO standards in force webpage will need to consider providing two separate sections for the current IMO MSC.232 and the new MSC.530.  **ENCWG8 noted** that the current S-64 edition is intended exclusively for the existing ECDIS, while the new edition of S-64 is designed for S-100 ECDIS.  Stakeholders identified during the meeting:   * IHO MSs (data producer) * RENCs * OEMs * Ships (BIMCO, INTERTANKO, IEC …) * Port State Control * Notified bodies * Maritime Administration.   **[Action 8/08] ENCWG Chair and S-64 Sub-Group** to develop the impact assessment template for stakeholders and conduct the survey. Subsequently, **ENCWG Chair** to report the result at the next HSSC for consideration.  **ENCWG8 noted** that the **UKHO** will kindly provide their online platform to carry out the survey. | *(Ref. HSSC15/35)* |
| 5.8 | S-52 clarifications | **[Action 8/09] S-52 Sub-Group** to investigate the previous Edition of S-52 PS to verify the OBSTRN07 UML diagram.  **ENCWG8 noted** the issue could have arisen due to a typo during the transformation process from PL3.4 to 4.0 new Edition.  **[Decision 8/06] ENCWG** agreed to add a OBSTRN07 test case to the OEM survey on overlapping ENCs with inverse scale-bands.  **[Action 8/10] S-52 Sub-Group** to review the draft Ed.4.0.4 of S-52 to ensure that all approved changes so far are included. Based on the results of the survey, the **S-52 Sub-Group** to submit the final draft Ed.4.0.4 of S-52 to the ENCWG for approval. | *Completed*  *Feb 2024* |
| 4.2 | S-58 Updates | **[Decision 8/07] ENCWG8 approved** the proposed changes including amending typos and suggestions for clarification that were identified during the meeting.  **[Action 8/11] S-58 Sub-Group (lead)** to update the draft Ed 8.0.0 of S-58 incorporating the approved changes and amendments identified during the meeting and to provide the final draft Ed.8.0.0 of S-58 to the IHO Sec. | *Nov 2023* |
| 4.2 | S-58 Updates | **[Action 8/12] ENCWG Chair and S-58 Sub-Group Lead** to develop a draft survey questionnaire and to conduct the impact assessment to RENCs, Data producer, Software provider in particular for the new draft Edition 8.0.0 of S-58.  **ENCWG8 noted** the HSSC14 S-44 impact assessment would be considered as a baseline for the impact assessment template. | *Feb 2023* |
| 4.2 | S-58 Updates | **[Action 8/13] ENCWG Chair** to submit the draft Edition 8.0.0 of S-58 including the impact assessment to the next HSSC for endorsement as specified in IHO Resolution 2/2007. | HSSC16 |
| 5.5 | [Multiple Coverage Area within an ENC](https://iho.int/uploads/user/Services%20and%20Standards/ENCWG/ENCWG8/ENCWG8-5.5_2023_EN_Multiple%20M_COVR%20Features.pdf) | **[Decision 8/08] ENCWG8** **approved** the proposed new check in S-58 (ref. ENCWG8-4.2) to be incorporated into the final draft Ed.8.0.0 of S-58. |  |
| 4.9 | DQWG report  POSACC/SOUACC for S-101 conversion | **ENCWG8 noted** the presentation made by Ms Runqing DOU on behalf of the chair of DQWG.  **[Action 8/14] ENCWG Chair and S-101PT Chair** to reach out to DQWG and HSWG to clarify the TVU differences between S-44 and S-57/S-101 ENC, including the issues raised by Herman S (Netherlands), and subsequently report to the next ENCWG and S-101PT meetings. | ENCWG9 |
|  | S-67(S-66) | **ENCWG8 noted** the draft document and work of the Task-Group.  **[Action 8/15] S-67 Task-Group** to develop the final draft version of consolidated S-67 and S-66, no later than the end of 2024. Subsequently, Task-Group to submit the final draft to ENCWG for approval.  **[Action 8/16] IHO Sec** to investigate the current ENC in-force webpage for S-57 ENC and S-101ENC for clear distinction between the different IMO ECDIS performance standards and report it to the next ENCWG for discussion. | Feb 2024  ENCWG9 |
| 4.7 | ENC conversion | **ENCWG8 noted** the presentation of the conversion Sub-Group activities since the last ENCWG meeting, including the update of the current published conversion guidance to be in line with the S-101 FC 1.1.0.  **ENCWG8 Members** who were implementing the conversion document at the meeting: Denmark, Indonesia, PRIMAR members, IC-ENC members |  |
| 4.7 | ENC conversion | **[Action 8/17] ENC Conversion Sub-Group** to consider a case for the development of conversion readiness checks and investigate with **IHO Sec** the best place to host them for instance, the Github, the GI Registry or IHO webpage. | ENCWG9 |
| 4.8 | IHO-SGP Lab project update | **ENCWG8 noted** the presentation given by the lead of the IHO-SGP conversion project. The workshop will be held 6-10 Nov 2023 in Singapore. MSs are encouraged to review the CL29/2023 and if they wish to participate register through the online portal no later than 09 October 2023.  **ENWG8 noted** the timing for Ed.20.0.of S-101PS and the conversion guidance document |  |
| 4.1 | S-101 Educational Guidance | **ENCWG8 Noted** the presentation made by SHOM  **[Decision 8/09] ENCWG** **supported** the development of an S-101 educational guidance document and re-visit the place holder of the document for instance, as an annex of S-65 or training material. This new work item will be included in the ENCWG work program.  **[Decision 8/10] ENCWG** **agreed** to establish a **Task Group (TG)** to develop a draft educational guideline document based on the same structure as S-65 to the next ENCWG meeting.  **TG members**: Christian (Lead, SHOM), Alvaro (S-101Portoral Sub-Group Lead), Richard (UK), RENCs (PRIMAR, IC-ENC), Kevin (NGA)  **ENCWG8 noted** that it was anIRCC report in 2022 regarding S-100 training requirement. | ENCWG9 |
| 5.9 | S-57 UOC / Encoding Bulletin | **ENCWG8 noted** the presentation made by IHO Sec (Jeff W)  **ENCWG8 Noted** that amendment such as typos and clarification raised during the meeting will be applied to the final document.  **[Decision 8/11] ENCWG8** **accepted** the proposals of the presentation, draft EB 67 and 68, a standard separator for discrete text strings to be populated in INFORM to facilitate ENC conversion and placed in the S-57 UOC.  **[Action 8/18] IHO Sec (Jeff W)** to issue the Encoding Bulletin report 67 and 68 as the earliest opportunity.  **[Action 8/19] IHO Sec (Jeff W)** to review the encoding regarding the M\_QUAL for POSACC and SOUACC in the S-57 UOC and S-101 DCEG and report it to the next ENCWG/S-101PT meeting.  **[Action 8/20] IHO Sec (Jeff W)** to draft the S-57 UOC and S-65 annex conversion guidance document to the next ENCWG for consideration.  **[Action 8/21] ENCWG Vice Chair** toincorporate the potential candidates for the standard separator into the test data sets for impact assessment. | Dec 2023  ENCWG9  ENCWG9  Dec 2023 |
| 5.3  5.3a | SCAMIN | **ENCWG8 noted** the presentation made by the UKHO (Andrew).  **[Action 8/22] UKHO / SHOM / INDONESIA / DENMARK / USA** to review and draft S-57 UOC SCAMIN step values for topographical features taking into consideration of needs of the user when viewing in, ECDIS report recommendations to the next ENCWG for consideration.  **[Decision 8/12]** ENCWG8 approved the draft proposal presented by the ENCWG Chair during the review of the draft decision and actions and IHO Sec (Jeff W) to update in the S-57 UOC. | Completed  (ENCWG8) |
| 5.4 | Bird nesting structures | **ENCWG8 noted** the presentation made by the UKHO (Richard C).  **[Action 8/23] ENCWG Members** to providefeedback on the bird nesting structures and wind farms infrastructure encoding to UKHO as a point of contact. Subsequently, **UKHO** to submit an input paper to the upcoming NCWG meeting for discussion and advice on encoding, noted the deadline is the end of Oct 2023. | Oct 2023 |
| 5.6 | S-101 attribute nature of construction Latticed | **ENCWG8 noted** the presentation made by Agus (Indonesia).  **[Decision 8/13] ENCWG** supported the proposal for the recommendation 1 and further consideration made by IHO Sec (Jeff W).  **[Action 8/24] Indonesia / IHO Sec (Jeff W)** to draft a paper for the conversion document and report to ENCWG. | Dec 2023 |
| 5.7 | S-101 attribute water level effect | **ENCWG8 noted** the presentation made by Qisthi (Indonesia).  **[Decision 8/14] ENCWG supported** the proposal in general, but suggested S-101PT to investigate further during this week, the outcomes will be revisited on Friday.  **[Action 8/25] Indonesia / IHO Sec(Jeff) / Tom.R (UKHO), Christian (SHOM)** to remove the water level effect in S-101DCEG and report the result at the end of Joint ENC/S-101PT meeting on Friday. | Completed  (ENCWG8) |
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| **Any Other Business** | | | |
| 7.1 | [ENCs Online Update Service](https://iho.int/uploads/user/Services%20and%20Standards/ENCWG/ENCWG8/ENCWG8-7.1_Info_2023_EN_roposal%20on%20Developing%20Standard%20for%20ENCs%20Online%20Update%20Service.pdf) | **ENCWG8 noted** the information paper presented by China.  **ENCWG8 recommended** China to investigate further taking into attention of IEC SECOM and other updates mechanism from RENCs and reach out to **ENCWG chair** and **IHO Sec** to consult following actions on the issue if appropriate. |  |
| 7.2 | Election chair and vice chair | [**Decision 8/15**] **Thomas Mellor** from UKHO and **Richard Fowle** from Denmark re-elected as Chair and Vice-chair with the support of the participants. |  |
| 7.3 | Monitoring SOE issue | **ENCWG8 noted** that monitoring the SOE issue by the RENCs does not require reporting to ENCWG. However, 7Cs may be requested to report on the issue periodically. |  |
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| **Date & Location of the next meetings** | | | |
| 8 | Meetings | [**Decision 8/16**] **ENCWG8** agreed to hold its series of ENCWG meeting as followings:   * **WG9** : 2-5 September 2024 / Denmark * **WG10** : 2025 (tbd) / Rep. of Korea * **WG11** :2026 **/** Canada (tbc) |  |

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