

**5TH MEETING OF THE HYDROGRAPHIC SERVICES AND STANDARDS COMMITTEE
Shanghai, China, 5-8 November 2013**

Paper for Consideration by HSSC

Procedures for the maintenance of S-57 and S-52

Submitted by:	IHB
Executive Summary:	This paper reviews the current procedures for the maintenance of S-57 and S-52. It recommends clarifying the current procedure related to the preparation and approval of S-57 Encoding Bulletins and proposes adopting a similar procedure for S-52 chart Presentation Bulletins.
Related Documents:	HSSC5-01D: Terms of Reference for HSSC and related Working Groups
Related Projects:	

Introduction / Background

1. At its 20th meeting (May 2010), TSMAD reviewed the procedure to manage the Use of the Object Catalogue for ENC (UOC - S-57 Appendix B.1, Annex A) and the Encoding Bulletins (EB) in order to ensure that safety issues get appropriate consideration and visibility. TSMAD presented its recommendation at HSSC2 (October 2010). HSSC instructed TSMAD to incorporate the procedure in its business rules. This led to the introduction of Annex 1 to TSMAD Terms of Reference (ToR) as approved by HSSC3 (November 2011).
2. A review of the implementation of the procedure was submitted to TSMAD at its 25th meeting (2012). TSMAD agreed that the procedure needed review to ensure appropriate identification and handling of safety issues and improve consistency.
3. The issue was further discussed at a “HSSC Road Map Workshop” which took place at the IHB on 27-28 March 2013 with the participation of the chairs of HSSC, TSMAD and DIPWG. It was agreed to submit to HSSC:
 - a draft revision of the wiring diagram in Annex 1 to TSMAD ToR;
 - a draft wiring diagram for S-52 chart Presentations Bulletins (PB).

Analysis/Discussion

4. The current EB procedure tasks the TSMAD chair group (chair and vice-chair) to decide if a maintenance issue should be considered as a safety issue or not. The wiring seems to allow for fast track processing of non-safety issues while requiring a longer process for issuing EBs related to safety issues. In the first case (non-safety issue) the S-57 sub-group may publish an EB when prompted by the TSMAD chair group. In the second case (safety issue), the EB is not supposed to be considered until a full review cycle involving IHO Member States and stakeholders has been completed and then analysed by the TSMAD chair group.
5. Similarly, DIPWG is tasked with the maintenance of S-52, including the production of S-52 chart Presentation Bulletins (PB). However, there is no explicit procedure for this activity.
6. Annex 1 offers a revised wiring diagram for the maintenance of S-57 based on Annex 1 to TSMAD Terms of Reference.
7. Annex 2 offers a similar wiring diagram for the maintenance of S-52.

Recommendations

8. It is recommended that HSSC adopts the procedures described in Annexes 1 and 2.

Justification and impacts

9. The proposed procedures intend to clarify the mechanism for the identification and appropriate processing of safety issues which may require amending the S-57 component *Use of the object catalogue for ENC* and S-52 portrayal rules.

Action required of HSSC

10. The HSSC is invited to:

- a. **note** this report;
- b. **endorse** the procedures described in Annexes 1 and 2;
- c. **adopt** the following amendments to the current ToR of TSMAD and DIWPG:

- TSMAD ToR:

(i) replace Annex 1 with the document attached in Annex 1 to this report;

- DIPWG ToR:

(i) at the end of article 3 a (i), add the following sentence:

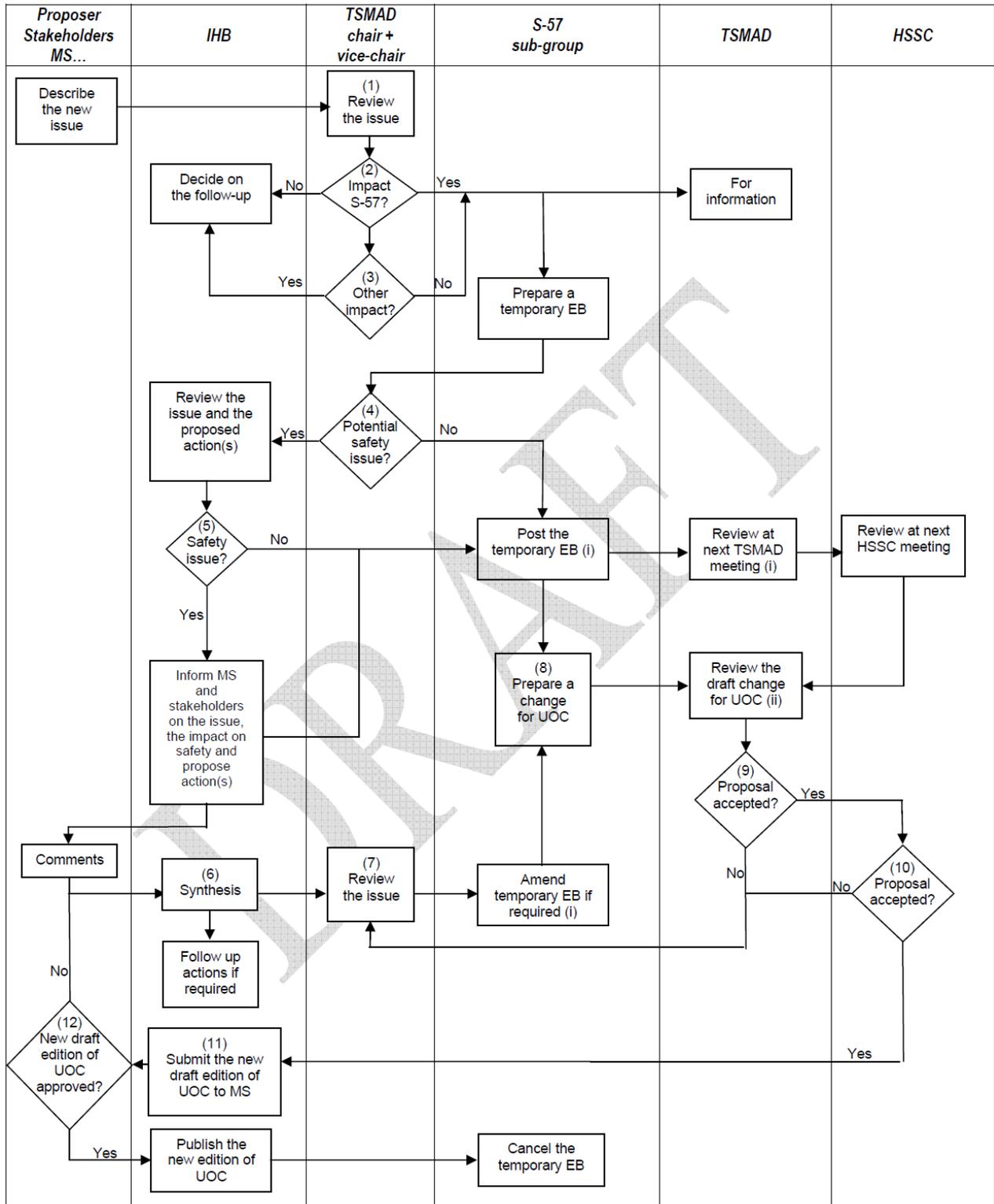
In the case of issues which may be related to the portrayal of objects according to S-52, the procedure described in Annex 1 must be adhered to.

(ii) insert as Annex 1 the document attached in Annex 2 to this report; and

- d. **take** any other **action** as appropriate.

Annex 1

Draft revised procedure for addressing S-57 data related issues



1. New issues which are potentially related to S-57 are submitted to the TSMAD chair group (chair and vice-chair of TSMAD) for review.
2. The TSMAD chair group considers whether the issue impacts S-57.
 - 2.a If it considers that the issue does not impact S-57, it reports to the IHB which decides on any follow-up action(s).
 - 2.b If it considers that the issue impacts S-57, it informs TSMAD members and tasks the S-57 sub-working group (S-57 SG, created in accordance with article 3b of the terms of reference) with the preparation of a temporary encoding bulletin (EB).
3. In parallel the TSMAD chair group considers whether the issue has any other impact, i.e. on other IHO publication or on other stakeholders. The TSMAD chair group reports other impact(s), if any, to the IHB which decides on any follow-up action(s).
4. In parallel, the TSMAD chair group considers whether the issue is related to safety of navigation.
 - 4.a If it considers that the issue is safety-related, it reports to the IHB with proposed actions. See item 5.
 - 4.b If it considers that the issue is not safety-related, it authorizes the posting of the relevant temporary EB. See note (i) and item 8.
5. The IHB reviews the report from the TSMAD chair group.
 - 5.a If the IHB agrees that the issue is safety-related, it informs Member States (MS) and stakeholders on the issue and the impact on safety, proposes the appropriate actions and invites comments. It also authorizes the posting of the relevant temporary EB. See note (i) and item 6.
 - 5.b If the IHB decides that the issue is not safety-related, it informs the TSMAD chair group and authorizes the posting of the relevant temporary EB. See note (i) and item 8.
6. The IHB analyses the comments from MS and stakeholders. It establishes a synthesis to be considered by the TSMAD chair group and takes any follow-up actions which it considers appropriate.
7. The TSMAD chair group reviews the issue and invites the S-57 SG to amend the temporary EB if required.
8. The S-57 SG prepares/reviews the appropriate draft change for S-57 Appendix B.1, Annex A - Use of the Object Catalogue for ENC (UOC) and submits its proposal to TSMAD.
9. TSMAD reviews the draft change for UOC as instructed by HSSC. See note (ii).
 - 9.a If TSMAD accepts the draft change for UOC, the proposal is submitted to HSSC. See item 10.
 - 9.b If TSMAD does not accept the draft change for UOC, the proposal is sent back to the TSMAD chair group. See item 7.
10. HSSC reviews the draft change for UOC.
 - 10.a If HSSC accepts the draft change for UOC, it invites the IHB to submit the draft to the approval of MS (in accordance with IHO Resolution 2/2007 as amended). See item 11.
 - 10.b If HSSC does not accept the draft change for UOC, the proposal is sent back to the TSMAD chair group. See item 7.
11. The IHB submit the draft new edition of the UOC to the approval of MS.
12. MS reviews the draft new edition of the UOC
 - 12.a If the draft new edition is approved by the simple majority of MS, then the IHB publishes the new edition (taking into account comments if appropriate) and the temporary EB is cancelled. END.

12.b If the draft new edition is not approved by the MS, see item 6.

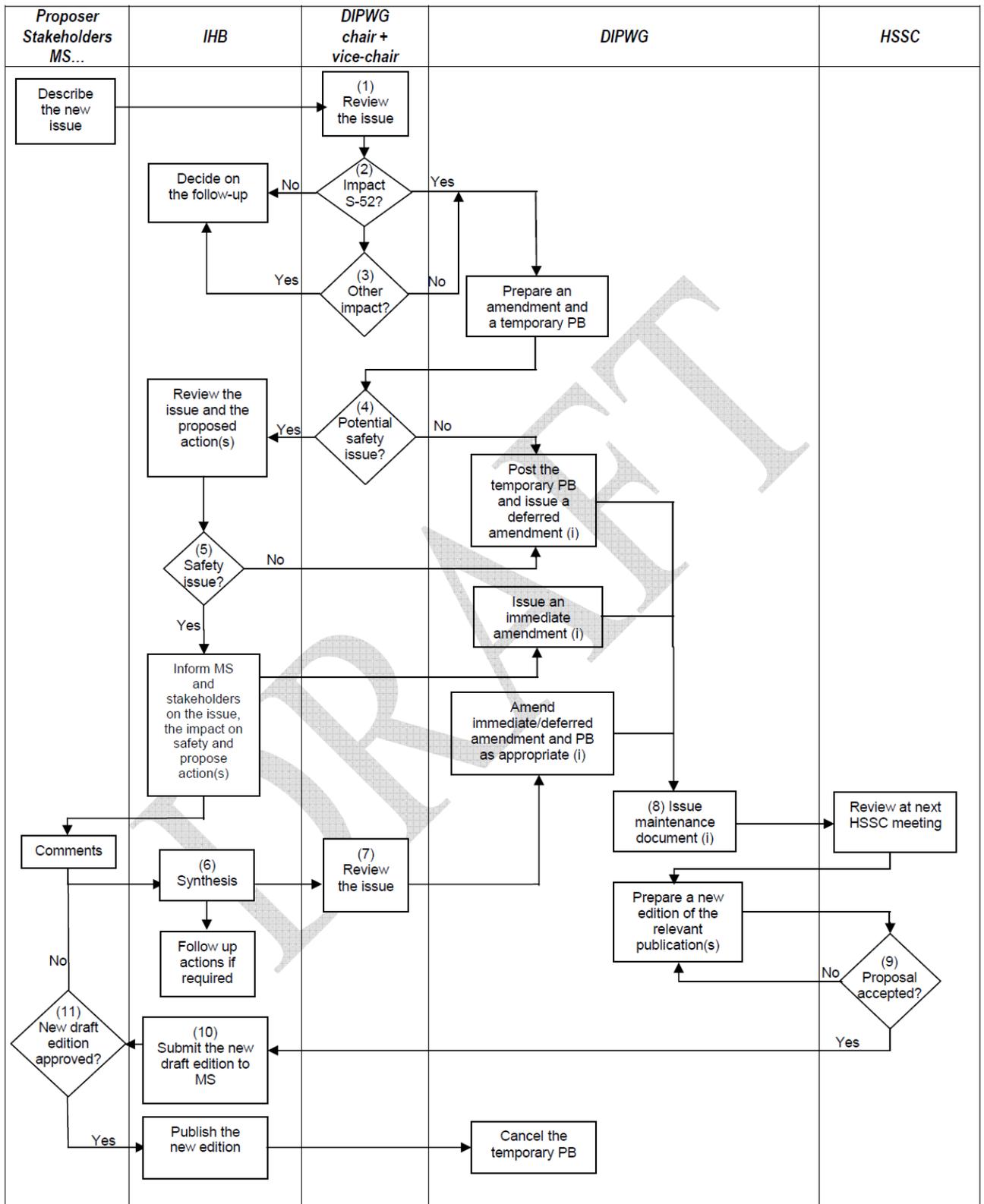
Notes:

- (i) The IHB informs MS of the posting of every EB by circular letter. Active EB are reviewed by TSMAD at its next meeting. TSMAD reports on the situation at the next HSSC meeting.
- (ii) TSMAD may decide to postpone the update of the UOC until a number of EB have been promulgated or until a period of time has elapsed since the previous revision/edition of the UOC.

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Annex 2

Draft procedure for addressing S-52 portrayal issues



1. New issues which are potentially related to S-52 are submitted to the DIPWG chair group (chair and vice-chair of DIPWG) for review.
2. The DIPWG chair group considers whether the issue impacts S-52.
 - 2.a If it considers that the issue does not impact S-52, it reports to the IHB which decides on any follow-up action(s).
 - 2.b If it considers that the issue impacts S-52, it invites DIPWG to prepare an amendment to the relevant component(s) of S-52 and a temporary chart presentation bulletin (PB).
3. In parallel the DIPWG chair group considers whether the issue has any other impact, i.e. on other IHO publication or on other stakeholders. The DIPWG chair group reports other impact(s), if any, to the IHB which decides on any follow-up action(s).
4. In parallel, the DIPWG chair group considers whether the issue is related to safety of navigation.
 - 4.a If it considers that the issue is safety-related, it reports to the IHB with proposed actions. See item 5.
 - 4.b If it considers that the issue is not safety-related, it authorizes the posting of the relevant temporary PB and issue a deferred amendment to the relevant publication. See note (i) and item 8.
5. The IHB reviews the report from the DIPWG chair group.
 - 5.a If the IHB agrees that the issue is safety-related, it informs Member States (MS) and stakeholders on the issue and the impact on safety, proposes the appropriate actions and invites comments. It also tasks DIPWG to issue an immediate amendment. See note (i) and item 8.
 - 5.b If the IHB decides that the issue is not safety-related, it informs the DIPWG chair group and authorizes the posting of the relevant temporary PB and the issuance of a deferred amendment. See note (i) and item 8.
6. The IHB analyses the comments from MS and stakeholders. It establishes a synthesis to be considered by the DIPWG chair group and takes any follow-up actions which it considers appropriate.
7. The DIPWG chair group reviews the issue and invites DIPWG to amend the relevant amendment and temporary PB if required.
8. DIPWG prepares/reviews and issues a S-52 maintenance document and reports to HSSC at its next meeting. When appropriate, and as instructed by HSSC, DIPWG prepares a draft new edition of the relevant component of S-52. DIPWG submits its proposal to HSSC.
9. HSSC reviews the draft new edition submitted by DIPWG.
 - 9.a If HSSC accepts the draft new edition, it invites the IHB to submit the draft to the approval of MS (in accordance with IHO Resolution 2/2007 as amended). See item 10.
 - 9.b If HSSC does not accept the draft new edition, the proposal is sent back to the DIPWG chair group. See item 7.
10. The IHB submit the draft new edition to the approval of MS.
11. MS reviews the draft new edition.
 - 11.a If the draft new edition is approved by the simple majority of MS, then the IHB publishes the new edition (taking into account comments if appropriate) and the temporary PB is cancelled. END.
 - 11.b If the draft new edition is not approved by the MS, see item 6.

Note:

- (i) The IHB informs MS of the posting of every PB and the issuance of every amendment by circular letter.