Paper for Consideration by the Digital Information Portrayal Working Group (DIPWG)

Development and Review of S-52 Ed 6.1.0 and Presentation Library Ed 4.0.0

Submitted by:	DIPWG Chair
Executive Summary:	Description of the edits made to the new editions of S-52 and its Presentation Library after since the DIPWG-5 meeting and the process being used to review and approve the documents.
Related Documents:	Draft S-52, Edition 6.1.0
	Draft S-52, Presentation Library, Edition 4.0.0
	DIPWG Letter 1/2013, "Review and Approval of S-52 Edition 6.1.0 and Presentation Library Edition 4.0.0"
	HSSC5-05.3B, "S-52 Presentation Library Edition 4.0"
	S-64, "IHO Test Data Sets for ECDIS"
	IEC 61174, "ECDIS - Operational and performance requirements, methods of testing and required test results"
Related Projects:	Revisions of S-64 and IEC 61174

Introduction / Background

During DIPWG5, a three-day break-out session of a dozen participants made significant progress in de-conflicting and resolving review comments that were received prior to the meeting. However, the sub-working group, composed primarily of OEMs, needed more time to finalize the presentation library and agreed to meet twice more during the summer. Nine members were able to attend a session in July and seven attended a session in late August 2013.

The updated versions of the documents resulting from the sub-working group's efforts were presented to the Hydrographic Services and Standards Committee at HSSC-5 (Shanghai, Nov 2013) by the DIPWG chair. A few minor editorial changes and paragraph number cross-reference corrections have since been made and the current drafts may be downloaded at: http://www.iho.int/iho_pubs/draft_pubs/S-52_e6.1.0/S-52_e6.1.0_and_PresLib_e4.0.0.htm)

Recognizing that DIPWG members had not had an opportunity to review the final draft developed by the sub-working group and that an additional review by a broader representation of ECDIS OEMs would be beneficial, HSSC agreed to a plan that included reviews of the updated editions by DIPWG and OEMs and also enabled HSSC to review and endorse the final drafts by correspondence. This plan also enables IHO Member States to review and approve the documents by October 2014.

Analysis/Discussion/Conclusions

Changes made to the draft versions of S-52 and its Presentation Library since DIPWG-5

Although the original action from HSSC-3 (Monaco, Nov 2011) was to develop a new edition of the Presentation Library, DIPWG-5 (papers TSMAD26/DIPWG5-09.4A, B, C & D) identified a need to revise the colour calibration section of the main S-52 document too. S-52 Annexes B and C contained errors and obsolete references to CRT technology. The required changes were made by the group and this necessitated incrementing the edition number of the main S-52 document from 6.0.0 to 6.1.0

As the sub-working group sessions progressed, consensus grew that additional areas required revision and that future inconsistencies and "ECDIS anomalies" could be reduced by limiting the number of implementation options that were available to manufactures in the current edition of the Presentation Library. Thus, the original direction by DIPWG to the sub-working group to proceed, "without making any further content changes," was not strictly adhered to, but the content changes developed by the group fit within the existing functionality required of ECDIS. For example, a new symbol was developed to highlight seasonal buoys and other date dependant features to improve mariners' ability to conduct voyage planning.

The display of text has also been added to selected features so that this information is available to the mariner without having to view a "pick-report." For example, anchorage area and fairway names are now shown directly on the ECDIS chart display. Addition details about the changes are in Annex A of DIPWG Letter 1/2013.

<u>Dependencies and review strategy</u>

The International Electrotechnical Commission (IEC) is editing a new edition of IEC 61174, "ECDIS -Operational and performance requirements, methods of testing and required test results." The revised IEC 61174 refers all ECDIS chart related tests to S-64, "IHO Test Data Sets for ECDIS." In turn, the new version of S-64 will test the new requirements in S-52 Presentation Library Ed 4.0.0.

Development of S-64 is dependent on the completion of the new editions of S-52 and the Presentation Library. To enable the coordinated implementation of IEC 61174, S-52 and S-64, the development, review and approval of all three documents is taking place concurrently.

<u>Schedule for review of the latest versions</u>

On 3 Dec 2013, the DIPWG Chair sent DIPWG letter 1/2013 to all DIPWG/TSMAD members requesting that they provide comments on the drafts no later than 28 Feb 2014.
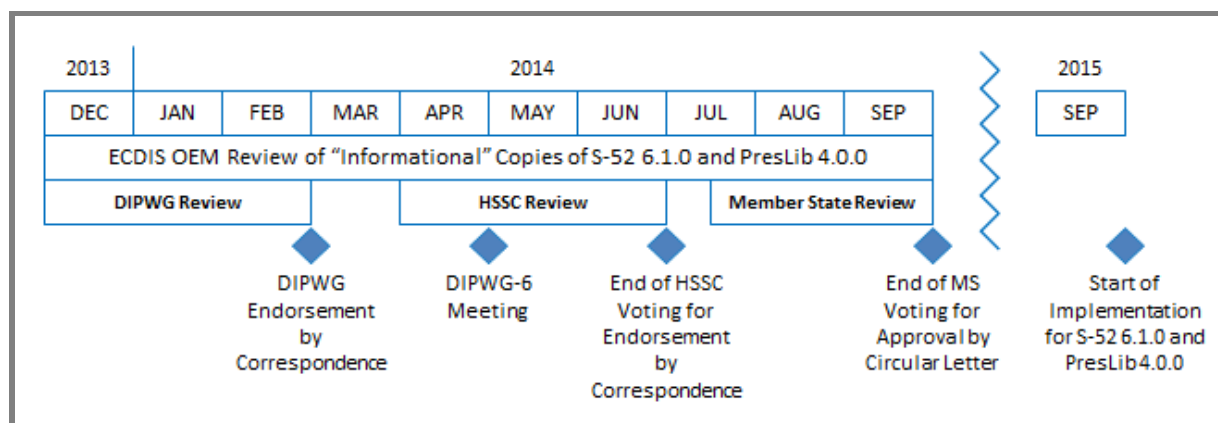
On 17 Jan 2014, the IHO sent a letter to 66 OEMs and other ECDIS stake holders requesting that they provide comments on the drafts no later than 28 Feb 2014.

Final DIPWG endorsement of current draft of S-52, Ed 6.1.0 and PresLib Ed 4.0.0 will take place at DIPWG-6 (Sydney, Apr 2014).

The HSSC plans to review and endorse the draft editions by 30 Jun 2014.

Any corrections identified during any of these reviews will be incorporated into the final versions.

In mid-July, the IHO will send a circular letter to IHO Member States to notify them that the final versions of the new editions are available for review through 30 Sep 2014. After approval by the IHO Member States, it is expected that S-52, Ed 6.1.0 and Presentation Library, Ed 4.0.0 will be fully implemented by 30 Sep 2015.

Review and Approval Schedule for New S-52, Ed 6.1.0 and Presentation Library, Ed 4.0.0

Recommendations

DIPWG should endorse the new S-52, Ed 6.1.0 and Presentation Library, Ed 4.0.0.

Justification and Impacts

Timely review and approval of these documents will facilitate the revisions of S-64, "IHO Test Data Sets for ECDIS" and IEC 61174, "ECDIS - Operational and performance requirements, methods of testing and required test results." Implementation of new editions of S-52 and the Presentation Library will make the carrying out portrayal in ECDIS clearer for ECDIS OEMs and reduce "ECDIS anomalies" in the future.

Action Required of DIPWG

DIPWG is invited to:

      a.   endorse the new S-52, Ed 6.1.0 and Presentation Library, Ed 4.0.0

      b.   forward the new editions to HSSC