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## CHRIS directions on operational aspects of ECDIS

## Reorganisation of S-52 to exclude operational aspects

Based on a contribution of Australia CHRIS14, Shanghai, August 2002 identified operational aspects of navigation devices in IHO special publications as outside of IHO responsibilities. CHRIS wherefore directed technical working groups to consider such aspects within its particular publications and to forward those requirements to responsible organisations, i.e. IMO and IEC.

As a result of this direction S-52 has to be reviewed by C&SMWG. S-52 indeed contains operational aspects and other general aspects which are already outdated and now covered by common public understanding of ECDIS, related IMO definitions, and IEC requirements as well.

## Keeping in mind that

- IEC WG13 (Nav.Symbols) currently collects neccesary changes of ECDIS performance standards for submission at NAV in Summer 2004, and
- IEC WG7 currently works on a major revision of IEC 61174 ECDIS the following strategy to adapt S-52 to CHRIS directions is proposed:
- 1.) Revise S-52 main document for operational requirements. As a result extract such requirements which are not covered already by IMO/IEC documents and forward them for consideration to IEC WG13 and IEC WG7 (via CHRIS) as part of the future IMO submission for changes of ECDIS Performance Standards. A brief revision of S-52 main document has shown that only a few of the contained statements (if any) are not covered by IMO nor IEC already. S-52 would be fully redundant when and should no longer be maintained in its current shape.
- 2.) Appendix 2 of S-52 is the most requested part of S-52. Appendix 2 should wherefore be promoted to become now S-52 main document. Consequently S-52 should be renamed to "Colours&Symbols Specifications for ECDIS". Annexes of of Appendix 2, namely Annex A "IHO ECDIS Presentation Library user's manual" should stay unchanged.
- 3. ) Appendix 1, of S-52 "Guidance on updating" definitely contains a number of operational aspects how to apply chart updates on ECDIS navigational devices. Whose requirements have to be separated from requirements how updates should be displayed, i.e. before and after confirmation by the mariner. Operational aspects should be checked by TSMAD for general support by S-57 structures and forwarded to the IMO/IEC afterwards. The remaining display requirements for updates if not already covered within the existing Appendix 2 of S-52 should be transferred to an updated Appendix 2. The "old" Appendix 1 could when fully go.
- 4.) Appendix 3 "Glossary of ECDIS related terms" deals as the name says with definitions of some items of a navigational device. Appendix 3 should be completely forwarded to the responsibility of IEC WG7 to become an Annex of IEC 61174, future Edition 3. The "old" Appendix 3 could when fully go.

These strategy would ideally lead to two effects:

- S-52 would become slim and clear in its purpose.
- C&SMWG could fully focus on display aspects of S-57 for the purpose of shipborne navigation on IMO Equipment abbreviated "ECDIS".
- Directions of CHRIS would be fullfilled.

However, the disadvantage would be to come up with another virtually new edition of the "old" Appendix 2 in due course. On the other hand the content changes would most probably not affect the functions of any ECDIS itself. It should be easy to rename Appendix 2 to become S-52 main document, fill it up with some small operational items for updating (which are not new) and to declare Appendix 1 and Appendix 3 as outdated. The principal acceptance of IEC WG13/WG7 beforehand is needed in any case.