Hydrographic Services and Standards Committee

IEC Activities affecting HSSC

Hannu Peiponen

Chair of IEC TC80

Topics

- New Chair for IEC Technical Committee 80 (TC80)

- Status of IEC 61174 ECDIS standard

- IEC TC80 plans about S-100 and e-Navigation

New chair for IEC TC80

- Current IEC directives specify service time of a chair of Technical Committee (TC) as 6 years

- On 22nd May 2015 Hannu Peiponen was elected as new Chair of IEC TC80 for the period of 1st Sep 2015 – 31st Aug 2021

- Hannu Peiponen replaced Andy Norris for this position

ECDIS - Introduction / Background

✦ IEC 61174 is the testing standard for type approval of ECDIS

  – It covers testing of compliance with IHO S-52, S-57, S-63 and S-64

  – Previous edition was 3.0 from Sep 2008.

✦ Based on IHO and IMO ECDIS anomalies discussions, IEC TC80 established in 2012 a maintenance team for IEC 61174 to address the issue. Hannu Peiponen was selected as the convenor of MT7. The MT7 was given following dates as milestones: CDV Mar 2014, FDIS Mar 2015 and IS Sep 2015

✦ In HSSC-5, Nov 2013, IEC proposed and IHO agreed synchronization of publishing of new editions of ECDIS related standard for both IHO and IEC

✦ As agreed IHO published in 2015 new editions of S-52, S-63 and S-64 before IEC published new 4th edition of IEC 61174 in Aug 2015

ECDIS - Analysis / Discussion

- IEC has been pleased to note that the synchronized publishing part of both IHO and IEC standard happened as planned

- New 4th edition of IEC 61174 has been constructed so that the testing of the chart drawing part is now totally under responsibility of IHO S-64. Any detail of the testing of chart drawing available in the previous 1st, 2nd and 3rd editions of IEC 61174 has been removed and the testing of chart drawing part in the IEC 61174 simply reference to S-64

- Further it should be noted that this referencing to S-64 is without date. This means that IHO can improve content of the IHO S-64 if there will be any future need to do so

ECDIS - Conclusion, justification and impacts

✦ Co-operation between IHO and IEC worked very well and the result is a coherent set of new editions of the key ECDIS related standard to address known "ECDIS anomalies"

✦ The new division of the test instructions between IHO and IEC seems to be a good practice. In this new division:

  – IHO publish detailed instructions how to test chart drawing part as covered by IHO standard and

  – IEC publish detailed instruction how to test other functionality as required by the IMO Performance Standards

✦ The process of new clarifying editions of all ECDIS related standards is a response to address known "ECDIS anomalies" and implementation irregularities, and to improve the overall clarity of the specification. The result addresses also feedback of end users as noted by the IMO ECDIS stakeholder meeting in Oct 2012 to discuss about ECDIS and ECDIS anomalies

ECDIS - Action requested of HSSC

- To note the information provided

IEC TC80 and S-100 - Introduction / Background

✦ IEC TC80 Plenary is the highest decision making body within IEC TC80. The plenary meeting is held every second year:

– In 2013 the TC80 agreed that TC80 need to address the IMO decision about S-100 being the baseline of e-Navigation. The task was given to the WG6 (Interfaces) and Mr. Ung G Kim / Korea was named as project leader

– In 2014 it was found that Mr. Ung G Kim was too busy to work on this issue. Dr. Kwangil Lee / Korea was given the task to draft a preliminary plan for discussion within the WG6.

IEC TC80 and S-100 - Introduction / Background

- Latest IEC TC80 plenary Oct 2015 decision:

  - In Oct 2015 TC80 established a new independent workgroup WG17 Common Maritime Data Structure (CMDS) with Dr Kwangil Lee / Korea as convenor and Scope as below:

    - Prepare standards for CMDS

    - The initial action within 2016 is to prepare an IEC DC paper to define IEC scopes and to obtain comments from IEC TC80 National Committees

    - The scope of this workgroup will be larger towards the inter-operability with shore side systems and services than the draft idea in 2013

IEC TC80 and S-100 – Discussion and conclusions

✦ The current situation is drafting without any fixed schedule

✦ However it can be assumed that the process within IEC TC80 may lead for:

– IEC TC80 may be a domain owner for the S-100 framework

– IEC TC80 may register and maintain IEC TC80 work related items in the S-100 GI registry

– IEC TC80 may need to register a list of S-10X Product Specifications

✦ There is a need for IEC and IHO to co-operate for this issue

IEC TC80 and S-100 - Action requested of HSSC

- To note the information provided