



Hydrographic Services and Standards Committee

Report of the / Proposal by the

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IEC Activities affecting HSSC

Topic 1: New edition of IEC 61174 ECDIS

- ★ 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
 - Current edition is 3.0 from Sep 2008
- ★ IEC established in Dec 2012 a maintenance team (MT) for IEC 61174 to address the ECDIS anomalies issue
 - Hannu Peiponen was selected as the chairman of MT7
 - Work has following milestones:
 - CDV May 2014
 - FDIS May 2015
 - IS Sep 2015



Description of IEC process

- ✦ First step is to establish a maintenance team (MT)
- ✦ MT can publish committee drafts (CD) to get feedback about the content.
- ✦ MT has time until CDV to draft the content
- ✦ After issuing of the CDV only the chairman of the MT remains available for the secretary of the TC80
- ✦ CDV comments are processed by secretary/TC80 and he creates the next voting draft, the final draft international standard (FDIS)
- ✦ FDIS is processed by IEC headquarter
- ✦ International Standard (IS) is created by IEC headquarter
- ✦ The process delay from CDV to IS is long – over 1 year



Description of IEC process – to note

- ★ Technical experts of the MT are part of the process until the CDV is given for voting
 - May 2014 is deadline technical experts
- ★ CDV may contain references to external items which are not yet published on the date of publishing of the CDV, but are published before deadline of the CDV voting
 - CDV voting is assumed to close around Nov 2014



Synchronization of IHO and IEC

- ✦ Final publishing of S-52 and S-64 should be synchronized
 - First content of the S-52 is agreed
 - Then the related S-64 can be developed
- ✦ New ed. of IEC 61174 refers to new editions of S-52 and S-64
- ✦ Publishing of new edition of IEC 61174 should be synchronized
- ✦ Final in force date for all these standards (IHO S-52, IHO S-64 and IEC 61174) is planned to be within 2015
 - The planned date is set today as 2015-09 by the IEC document 80_687e_RR as target date for publishing of the IS.



Assumed and recommended time schedule

- ✦ Nov 2013, HSSC5 agree new edition of S-52
- ✦ Nov 2013, HSSC5 agree plan for new edition of the S-64
- ✦ Jan 2014, IHO publish the new edition of S-52
- ✦ Spring 2014, TSMAD complete content of new edition of S-64
- ✦ May 2014, IEC workgroup completes CDV of 611174
- ✦ Summer 2014, HSSC approve new edition of S-64
- ✦ Nov 2014, End of CDV voting for new edition of 61174
- ✦ May 2015, Start of IEC FDIS voting for new edition of 61174
- ✦ After May 2015: Synchronized publishing by IHO and IEC



Topic 1: Action requested of HSSC

- ✦ To consider the proposed time schedule and the actions within it
- ✦ To especially consider approval of S-64 latest by Oct 2014 instead of postponing the final decision to the HSSC6 in Nov 2014.
- ✦ To consider initially placing the S-52 and S-64 only on the “download” page of the IHO website
- ✦ To synchronize with IEC TC80 or CIRM regarding update of the webpage “Current IHO Standards for ECDIS equipment”



Topic 2: IEC 61162 series interface standards and S-100

- ★ IEC 61162 series is recognized by IMO Performance Standards for onboard navigation and communication equipment
 - The IEC 61162 series standards set the baseline for interoperability between equipment from various manufacturers installed onboard SOLAS ships
- ★ IEC TC80 Plenary Sep 2013 agreed that IEC needs to address IMO decision about S-100 being the baseline of the e-Navigation
 - The Jan 2014 meeting of the IEC TC80/WG6 is assumed to draft how the issue is addressed



Topic 2: Action requested of HSSC

- ✦ To note information provider
- ✦ To inform IEC which workgroup of the HSSC is the most suitable for the IEC to liaise for this issue



Topic 3: Conclusions from IEC workshop for SQA

- ✦ IMO e-Navigation process includes SQA
- ✦ IEC TC80 creates and maintains IEC standards for navigation and communication equipments for onboard use in SOLAS ships
 - Such equipments are in the core of implementation of the e-Navigation
- ✦ IEC had a workshop in Sep 2013
 - The workshop was attended by representatives of the IEC TC80 National Committees
 - The representatives included both industry and maritime administrations (Australia, UK and USA)



Conclusions from IEC workshop for SQA

✦ SQA does not solve anything for shipborne segment

- Manufacturers for shipborne segment are already based on IEC 60945 required to have certified quality management system: ISO 9001 or equivalent
- Quality management is an issue for shore segment and distribution segment as they have today no obligation to have any certified quality management.

✦ The real issue is Service Lifecycle Management SLM

- Service should be understood including all actors in the service chain: A) data source, B) data distribution and C) onboard use of data.
- The SLM of the service chain should set rules for example for A) application of certified quality systems, B) application of quality assurance tests in data production, C) how each party informs others for any change, D) how long is transition period for a change in the service chain, E) what to do with legacy systems in any part of the service chain, F) how to inform end of life for service or system, G) how to inform end of keeping service, H) system or equipment up-to-date for latest rules, etc.



Topic 3: Action requested of HSSC

- ★ To note information provided
- ★ To consider to include Service Lifecycle Management (SLM) into future work of the workgroups of the HSSC

