

**2<sup>nd</sup> IHO-HSSC Meeting  
Rostock, Germany, 26-29 October 2010**

**IEC Technical Committee 80 - Note to the IHO Hydrographic Services and Standards  
Committee meeting, Rostock October 2010**

Technical Committee 80 of the IEC is responsible for the preparation of standards for maritime navigation and radiocommunication equipment and systems. These standards are prepared in order that the performance standards of IMO, as well as the technical requirements of ITU and other relevant international organizations can be verified.

A list of current standards is attached. Standards of interest to HSSC include:

**IEC 61174**, *Maritime Navigation and Radiocommunication  
Equipment and Systems – Electronic chart display and information system  
(ECDIS) – Operational and performance requirements, methods of testing and  
required test results*

The third edition of IEC 61174 was published in September 2008 and was a revision to incorporate the revised performance standards for ECDIS adopted by the IMO as resolution MSC.232(82) in December 2006. The new performance standards applied to ECDIS installed on ships after 1 January 2009.

The third edition is due for maintenance in September 2012. A revision cycle requires around 2 years which gives a start date of September 2010. However the decision was made at the last plenary meeting of IEC TC80 in 2009 not to start a revision cycle but to reconfirm the standard in 2012. Action after 2012 will be decided at the next IEC TC80 plenary meeting to be held in 2011.

IEC thanks IHO for all the care that was taken to maintain the cross referencing between the IEC and IHO standards which has enabled IEC 61174 edition 3 to remain unchanged.

**IEC 62376**, *Maritime Navigation and Radiocommunication  
Equipment and Systems – Electronic chart system (ECS) – Operational and  
performance requirements, methods of testing and required test results*

The first edition of IEC 62376 was published in September 2010 after some 7 years of development and specifies ECSs designed or adapted for use as navigation information systems on vessels not required to comply with Chapter V of the International Convention for the Safety of Life at Sea (SOLAS).

Three classes of ECS are defined:

- Class “A” ECS are designed or adapted for use as a primary navigation information system.

- Class “B” ECS are designed or adapted for use as a navigation information system where less navigational functionality is required than Class “A”.
- Class “C” ECS are designed or adapted for use as a navigation information system with minimal functionality intended to plot and monitor a vessel’s position.

The maintenance date for IEC 62376 is September 2014. Decisions on the future of the standard will again be taken at the 2011 IEC TC80 plenary meeting.

TC80 is very pleased to maintain liaison with HSSC and welcomes any feedback and comments. IHO is a liaison member of TC80 and is able to participate in any meetings and standards development work of TC80.

Kim Fisher - Secretary IEC TC80

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**Current Publications issued by TC 80  
with the reference to the IMO performance  
standards where applicable**

NUMBER	IMO Resolution	TITLE
IEC 60945 Ed. 4.0 + Corr.1	<i>A.694(17)</i>	General requirements
IEC 61023 Ed. 3.0	<i>MSC.96(72)</i>	Marine speed and distance measuring equipment (SDME)
IEC 61075 Ed. 1.0	<i>A.818(19)</i>	LORAN C receivers for ships
IEC 61097-1 Ed. 2.0	<i>A.802(19) amended by MSC.247(83)</i>	GMDSS - Part 1: Radar transponder - Marine search and rescue (SART)
IEC 61097-2 Ed. 3.0	<i>A.810(19) amended by MSC.56(66) and MSC.120(74)</i>	GMDSS - Part 2: COSPAS-SARSAT EPIRB
IEC 61097-3 Ed. 1.0	<i>A.803(19) A.804(19), A.806(19) amended by MSC.68(68)</i>	GMDSS - Part 3: Digital selective calling (DSC) equipment
IEC 61097-4 Ed. 2.0	<i>A.807(19) amended MSC.68(68) Annex 4</i>	GMDSS - Part 4: INMARSAT C ship earth station and EGC
IEC 61097-6 Ed. 2.0	<i>MSC.148(77)</i>	GMDSS - Part 6: NAVTEX
IEC 61097-7 Ed. 1.0	<i>A.803(19) amended MSC.68(68) Annex 1</i>	GMDSS - Part 7: VHF radiotelephone transmitter and receiver
IEC 61097-8 Ed. 1.0	<i>A.803(19) A.804(19), A.806(19)</i>	GMDSS - Part 8: Watchkeeping receivers for DSC
IEC 61097-9 Ed. 1.0	<i>A.806(19) amended MSC.68(68) Annex 3</i>	GMDSS - Part 9: Transmitters and receivers for use in the MF and HF bands
IEC 61097-12 Ed. 1.0	<i>A.809(19)</i>	GMDSS - Part 12: Survival craft portable two- way VHF radiotelephone apparatus
IEC 61097-13 Ed 1.0		GMDSS - Part 13: Inmarsat F77 Ship Earth Station
IEC 61097-14 Ed 1.0	<i>MSC.246(83)</i>	GMDSS - Part 14: AIS search and rescue transmitter (AIS-SART)
IEC 61108-1 Ed. 2.0	<i>MSC.112(73)</i>	GNSS - Part 1: Global positioning system (GPS) - Receiver equipment
IEC 61108-2 Ed.	<i>MSC.113(73)</i>	GNSS - Part 2: Global navigation satellite

1.0		system (GLONASS) – Receiver equipment
IEC 61108-3 Ed. 1.0	<i>MSC.233(82)</i>	GNSS – Part 3: Galileo receiver equipment
IEC 61108-4 Ed. 1.0	<i>MSC.114(73)</i>	GNSS - Part 4: Differential GPS / Differential GLONASS
IEC 61162-1 Ed. 3.0		Digital interfaces - Part 1: Single talker and multiple listeners
IEC 61162-2 Ed. 1.0		Digital interfaces - Part 2: Single talker and multiple listeners, high-speed

<b>NUMBER</b>	<b>IMO Resolution</b>	<b>TITLE</b>
IEC 61162-3 Ed.1.0 + A.1		Digital interfaces – Part 3: Serial data instrument network
IEC 61162-400 Ed. 1		Digital Interfaces - Part 400: Introduction and general principles
IEC 61162-401 Ed. 1		Digital Interfaces - Part 401: Application profile
IEC 61162-402 Ed.1		Digital Interfaces – Part 402: Test methods for the 400 series
IEC 61162-410 Ed. 1		Digital Interfaces - Part 410: Transport profile requirements and profile
IEC 61162-420 Ed. 1		Digital Interfaces - Part 420: Companion standards and requirements
IEC 61174 Ed. 3.0	<i>MSC.232(82)</i>	Electronic chart display and information system (ECDIS)
IEC 61209 Ed. 1.0	<i>MSC.64(67) Annex 1</i>	Integrated bridge systems (IBS)
IEC 61924 Ed.1.0	<i>MSC.86(70) Annex 3</i>	Integrated Navigation Systems (INS)
IEC 61993-1 Ed. 1.0		AIS Part 1: Shipborne system using VHF digital selective calling techniques
IEC 61993-2 Ed. 1.0	<i>MSC.74(69) Annex 3</i>	AIS Part 2: Class A Universal Automatic Identification System
IEC 61996-1 Ed. 1.0	<i>A.861(20) amended by MSC.214(81)</i>	Shipborne voyage data recorder (VDR)
IEC 61996-2 Ed. 2.0	<i>MSC.163(78) amended by MSC.214(81)</i>	Simplified shipborne voyage data recorder (S-VDR)
IEC 62065 Ed. 1.0	<i>MSC.74(69) Annex 2</i>	Track control
IEC 62238 Ed. 1.0		VHF radiotelephone with class "D" Digital Selective Calling (DSC)
IEC 62252 Ed. 1.0		Radar plotting aids for small craft and non-SOLAS convention craft
IEC 62287-1 Ed. 1.0		AIS Class B equipment for non-SOLAS craft (CSTDMA)
IEC 62288 Ed. 1.0	<i>MSC.191(79)</i>	Presentation of navigation-related information on shipborne navigational displays
IEC 62320-1 Ed. 1.1		Automatic identification systems – Part 1: AIS Base Stations
IEC 62320-2 Ed. 1.0		Automatic identification systems – Part 2: AIS AtoN Stations
IEC 62376 Ed. 1.0		Electronic Chart System (ECS)
IEC 62388 Ed. 1.0	<i>MSC.192(79)</i>	Shipborne radar
IEC 62616 Ed. 1.0	<i>MSC.128(75)</i>	Bridge navigational watch alarm system (BNWAS)