Appendix I

Summaries of IACS Resolutions published in 2022

Summary of New/Revisions to IACS Unified Requirements published in 2022

New Revised Corrigenda Deleted/Withdrawn

Index	Resolution no.	Revision	Adoption	Title	Implemention Date
1	CSR 2021	Corr.1	Jan 2022	Corrigenda 1 to CSR 01 Jan 2021 Version	01 Jul 21
2	UR E10	Rev.8 Corr.1	Jan 2022	Test specification for type approval	-
3	UR E25	Rev.2	Feb 2022	Failure detection and response of all types of steering gear control systems	01 Jul 23
4	UR M42	Rev.6	Feb 2022	Steering gear	01 Jul 23
5	UR M61	Rev.1	Feb 2022	Starting arrangements of internal combustion engines	01 Jan 23
6	UR F15	Rev.6 Corr.1	Feb 2022	Reinforced thickness of ballast and cargo oil piping	-
7	UR W7	Rev.4	Feb 2022	Hull and machinery steel forgings	01 Jul 23
8	UR L4	Rev.3 Corr.2	Feb 2022	IACS documents reaching their 10th anniversary UR L4, UILL77 and UI CC6 (PS21015b)	-
9	UR M44	Rev.10 Corr.1	Feb 2022	Documents for the approval of diesel engines	-
10	UR M27	Del	Mar 2022	Bilge level alarms for unattended machinery spaces	-
11	UR M69	Del	Mar 2022	Qualitative failure analysis for propulsion and steering on passenger ships	-
12	UR E26	New	Mar 2022	Cyber resilience of ships	01 Jan 24
13	UR E27	New	Mar 2022	Cyber resilience of onboard systems and equipment	01 Jan 24
14	UR M73	Rev.1	Mar 2022	Turbochargers	01 Jan 23
15	UR Z29	New	Mar 2022	Remote classification surveys	01 Jan 23

Index	Resolution no.	Revision	Adoption	Title	Implemention Date
16	UR W8	Rev.3	Mar 2022	Hull and machinery steel castings	01 Jul 23
17	UR Z10.3	Rev.20	May 2022	Hull surveys of chemical tanker	01 Jan 23
18	UR Z10.4	Rev.17	May 2022	Hull surveys of double hull oil tankers	01 Jan 23
19	UR E13	Rev.3 Corr.1	May 2022	Test requirements for rotating machines	-
20	UR Z16	Rev.4 Corr.1	May 2022	Periodical surveys of cargo installations on ships carrying liquefied gases in bulk	-
21	UR Z7	Rev.29	May 2022	Hull classification surveys	01 Jul 23
22	UR P4	Rev.7	Jun 2022	Production and application of plastic piping systems on ships	01 Jul 23
23	UR E21	Rev.1 Corr.1	Jun 2022	Requirements for uninterruptible power system (UPS) units as alternative and/or transitional power	-
24	UR Z17	Rev.17	Jul 2022	Procedural requirements for service suppliers	01 Jul 23
25	UR Z1	Rev.9	Jul 2022	Annual and intermediate classification survey coverage of IMO Resolution A.1156(32)	-
26	UR Z23	Rev.7 Corr.1	Oct 2022	Hull survey for new construction	-
27	UR M45	Del	Nov 2022	Ventilation of machinery spaces	-
28	UR D11	Rev.4 Corr.1	Dec 2022	Safety features	-
29	CSR	2022 RCN1	Dec 2022	IACS CSR for bulk carriers and oil tankers	01 Jul 23
30	UR G5	New	Dec 2022	Fail-close action of Emergency Shut Down (ESD) Valve	01 Jan 24
31	UR S14	Rev.7	Dec 2022	Testing procedures of watertight compartments	01 Jan 24

Appendix I Summaries of IACS Resolutions published in 2022

Summary of New/Revisions to IACS Unified Requirements published in 2022

1. CSR 2021 (Corr.1 Jan 2022)

The consolidated version of CSR 2021 was issued in March 2021 and came into force on 1 July 2021. Rule Change Notice 1 (RCN1), Urgent Rule Change Notice 1 (URCN) and Corrigenda 1 to CSR 2021 version were published as outcomes of regular CSR maintenance.

2. UR E10 (Rev.8 Corr.1 Jan 2022)

UR E10 provides test specification for electrical, electronic and programmable equipment intended for control, monitoring, alarm and protection systems for use in ships. In this corrigendum, the uniform application statement has been corrected.

3. UR E25 (Rev.2 Feb 2022)

This UR applies to steering gear control systems as defined in UR M42 Appendix 1 Item 1. This revision includes the deletion of “hydraulic locking” from the failure list in paragraph E25.2.1 and amendment to clarify that the system response is not mandatory for mechanical failures.

4. UR M42 (Rev.6 Feb 2022)

UR M42 applies to steering gear and this revision is to clarify the definition of hydraulic locking.

5. UR M61 (Rev.1 Feb 2022)

UR M61 provides starting arrangements of internal combustion engines and the requirements mentioning the engine conditions (such as cold conditions and warm running condition) have been deleted in this revision.

6. UR F15 (Rev.6 Corr.1 Feb 2022)

UR F15 provides the requirements of reinforced thickness to ballast piping passing though cargo tanks and to cargo oil pipes passing though segregated ballast tanks. In this revision, editorial errors have been corrected.

7. UR W7 (Rev.4 Feb 2022)

These requirements are applicable to steel forgings intended for hull and machinery applications. They have been fully reworked and revised with updated industry standards and other IACS publications. Moreover, in the case of hollow ring forgings, clarification of the requirement regarding the position of test specimen has been introduced.

8. UR L4 (Rev.3 Corr.2 Feb 2022)

UR L4 is the requirement for the closure of chain lockers. Corr.2 updates the standards which are referenced in the UR.

9. UR M44 (Rev.10 Corr.1 Feb 2022)

UR M44 concerns the document for the approval of diesel engines, those being the documentation lists for approval and the document flow for engine certificates, as well as certification process. In this corrigendum “The FEMA reports required will not be explicitly approved by the Classification Society” in Foot note 5 of Table 1 was deleted.

10. UR M27 (Del. Mar 2022)

Due to duplication with SOLAS Reg. II-1/48, UR M27 has been deleted.

11. UR M69 (Del. Mar 2022)

UR M69 has been deleted as the way to refer to instruments other than those specified by IACS has been unified.

12. UR E26 (New Mar 2022)

UR E26 regarding cyber resilience of ships is newly established. This UR targets the ship as a collective entity for cyber resilience and covers five key aspects: equipment identification, protection, attack detection, response, and recovery.

13. UR E27 (New Mar 2022)

UR E27 regarding cyber resilience of onboard systems and equipment is newly developed. This UR provides requirements for cyber resilience of onboard systems and equipment and provides additional requirements relating to the interface between users and computer-based systems onboard, as well as product design and development requirements for new devices before their implementation on board ships.

14. UR M73 (Rev.1 Mar 2022)

This requirement is applicable to turbochargers with regard to design approval, type testing and certification and matching to engines. In this revision, clarification is provided for “date of application for clarification”.

15. UR Z29 (New Mar 2022)

UR Z29 has been newly developed to introduce principles and minimum requirements for carrying out remote surveys. To ensure all IACS Members have uniform guidance and requirements on remote surveys, a new IACS UR has been developed with the objective of allowing remote surveys only if the quality of survey is not compromised, and the survey is carried out with the same assurance as those performed by an on board attending surveyor.

16. UR W8 (Rev.3 Mar 2022)

UR W8 regarding hull and machinery steel castings has been fully reworked and revised, updating standards reference, detailing new requirements regarding test block dimension and positions, and updating requirements for welding, repair and NDT.

17. UR Z10.3 (Rev.20 May 2022)

UR Z10.3 provides the procedure for hull survey of chemical tankers. This revision amends the Minimum requirements of Thickness Measurements at Special Survey No.1 in line with the amendments made to ESP Code vide Res. MSC. 483(103).

18. UR Z10.4 (Rev.17 May 2022)

UR Z10.3 provides the procedure for hull survey of double hull oil tankers. This revision amends the Minimum requirements of Thickness Measurements at Special Survey No.1 in line with the amendments made to ESP Code vide Res. MSC. 483(103).

19. UR E13 (Rev.3 Corr.1 May 2022)

This UR provides the test requirement for rotating machines. In this Corr.1, the second sentence of Paragraph 4.5 has been corrected.

20. UR Z16 (Rev.4 Corr.1 May 2022)

UR Z16 is the requirement of periodical surveys related to cargo installation on ships carrying liquefied gases in bulk. This corrigendum is to correct an incorrect reference.

21. UR Z7 (Rev.29 May 2022)

UR Z7 provides the procedures of hull classification surveys. This revision is to clarify the requirements for thickness measurements for ships without cargo space because the thickness of measurement requirements within the amidships 0.5L stipulated only cargo space in table 1.

22. UR P4 (Rev.7 Jun 2022)

This UR addresses the production and application of plastic piping systems on ships. In this revision, clear specification of the specimen size and number to be used in fire endurance testing on flange connections in plastic piping systems is included.

23. UR E21 (Rev.1 Corr.1 Jun 2022)

UR E21 is the requirement for uninterruptible power system (UPS) units for alternative and/or transitional power. In this version, the references to IMO instruments have been modified (reworded appropriately), in accordance with IACS Procedures Volume 1.

24. UR Z17 (Rev.17 Jul 2022)

These are procedural requirements for classification societies to approve firms providing services, such as measurements, tests or maintenance of safety system and equipment. The main reason for this revision is to clarify verification requirements for practical demonstration at initial and renewal audits.

25. UR Z1 (Rev.9 Jul 2022)

UR Z1 provides the procedure of annual and intermediate classification survey coverage of IMO Resolution A.1156(32). This revision is to update survey items following the publication of IMO Res. A.1156(32).

26. UR Z23 (Rev.7 Corr.1 Oct 2022)

UR Z23 gives the procedural requirements of hull survey for new construction. The scope of this UR includes examination of the ship covered by classification rules and by applicable statutory regulations for hull construction as well as appraisal of the manufacturing, construction, control and qualification procedures, including welding consumable, weld procedures, weld connections and assemblies. In this revision, the reference in appendix 1 has been updated due to the replacement of ISO18001(OHSAS18001) by ISO45001.

27. UR M45 (Del. Nov 2022)

As UR M45 of ventilation of machinery spaces contains no additional requirements to existing statutory requirements (SOLAS and ICLL) it has been deleted.

28. UR D11 (Rev.4 Corr.1 Dec 2022)

UR D11 provides guidance for safety features, including fire protection and extinction, fire-fighting water supply, fire extinguishing system, fire-fighting equipment for helicopter facilities, fire detection and alarm system. This UR is updated to clarify “near other openings of accommodation spaces”.

29. CSR 2022 (RCN1 Dec 2022)

The consolidated version of CSR 2022 was issued in March 2022 and came into force on 1 July 2022. Rule Change Notice 1 (RCN1), Urgent Rule Change Notice 1 (URCN1) and Corrigenda 1 to CSR 2022 version were published as outcomes of regular CSR maintenance.

30. UR G5 (New Dec 2022)

UR G5 regarding fail-close action of emergency shut down (ESD) valves has been newly established in association with the requirement in 18.10.2.1.2 of the IGC Code for ESD valves of the fail-close type.

31. UR S14 (Rev.7 Dec 2022)

UR S14 provides testing procedures for watertight compartments to be carried out in accordance with Annex 1. The procedures for the test are divided into three parts: SOLAS ships for Part A, SOLAS exempt/equivalent ships for Part B, and Non-SOLAS ships for Part C. In this revision, changes were made to clarify the application of UR S14, especially for smaller ships/non-SOLAS ships. For that purpose, Part B was modified, and a new Part C was added. A test pressure head for ships under Part C is newly developed.

Summary of New/Revisions to IACS Unified Interpretations published in 2022

New Revised Corrigenda Deleted/Withdrawn

Index	Resolution no.	Revision	Adoption	Title	Implemention Date
1	UI MPC20	Rev.1 Corr.2	Feb 2022	Annex VI of MARPOL 73/78 Regulation 13.2.1.1 and 13.2.2	-
2	UI LL59	Rev.1 Corr.1	Feb 2022	Cargo manifold gutter bars - freeing arrangements and intact stability	-
3	UI SC123	Rev.3 Corr.1	Feb 2022	Machinery installations - service tank arrangements	-
4	UI GC32	Rev.1	Feb 2022	Outer duct in gas fuel piping systems	01 Jan 23
5	UI GC38	New	Mar 2022	Deck areas above F.O. tanks installed at the after end of the aftermost hold space	01 Jul 22
6	UI SC261	Rev.1	Apr 2022	Interpretation of performance standards for voyage data recorders (VDRs)	01 Jul 22
7	UI SC296	New	May 2022	Noise level limit in workshops onboard ships	01 Jan 23
8	UI SC200	New Corr.1	May 2022	Container storage arrangement for equivalent fixed gas fire extinguishing systems (FSS Code,Ch.5,2.4)	-
9	UI SC201	Rev.1 Corr.1	May 2022	Location of paint lockers within cargo block	-
10	UI SC204	New Corr.1	May 2022	Storage of fire-extinguishing media forward the cargo holds	-
11	UI LL81	New	May 2022	SDC 8 submission of new UI for Regulation 37 (3) of ICLL1966, as amended (PS18030c)	01 Jan 23
12	UI SC161	Rev.3	May 2022	Timber deck cargo in the context of damage stability requirements	01 Jan 23
13	UI LL80	Rev.1	Jun 2022	Unprotected openings	01 Jul 23
14	UI SC280	Rev.1	Jun 2022	Angle of down-flooding (ϕf)/Angle at which an opening incapable of being closed weathertight (ϕv)	01 Jul 23
15	UI SC218	Rev.1	Jul 2022	Fire testing of equivalent water-based fire extinguishing systems	01 Jul 23
16	UI SC219	Rev.1	Jul 2022	Fire testing of equivalent water-based fire extinguishing systems	01 Jul 23
17	UI LL11	Rev.4	Jul 2022	Scuppers, inlets and discharges	-
18	UI SC297	New	Aug 2022	Amendment to stability/loading information in conjunction with the alterations of lightweight	01 Jan 23
19	UI SC155	Del	Aug 2022	Lightweight check in lieu of inclining test	-

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Summary of New/Revisions to IACS Unified Interpretations published in 2022

Index	Resolution no.	Revision	Adoption	Title	Implemention Date
20	UI SC254	Del	Aug 2022	Fall preventer devices (MSC.1/Circ.1392 and Circ.1327)	-
21	UI CC6	Rev.1	Aug 2022	Lining approved for use with acids – IBC Code item 15.11.2	01 Jan 23
22	UI SC217	New Corr.2	Aug 2022	Nozzles installation for fixed water based local application fire-fighting systems for use in category A machinery spaces (MSC/Circ.913)	-
23	UI FTP5	New Corr.1	Sep 2022	Testing and approval of "A" class divisions – fastening of insulation material and details of joints	-
24	UI SC198	New Corr.1	Sep 2022	Sections in local application fire extinguishing systems	-
25	UI HSC8	New Corr.1	Sep 2022	Protection of load bearing structures	-
26	UI FTP2	Del	Oct 2022	Pipe and duct penetrations	-
27	UI SC250	New Corr.2	Nov 2022	Fire-extinguishing arrangements in cargo spaces (IMSBC Code, as amended)	-
28	UI SC32	Del	Nov 2022	Fixed high expansion foam fire-extinguishing system	-
29	UI SC60	Del	Nov 2022	Fixed deck foam systems	-
30	UI LL61	Del	Nov 2022	Method of correction for the effect of free surface of liquids in tanks	-
31	UI FTP4	Rev.2	Nov 2022	Fire resistant windows on tankers	01 Jul 23
32	UI SC298	New	Dec 2022	Interpretations of various performance standards related to GMDSS radio installations	01 Jan 24
33	UI MPC14	Rev.3	Dec 2022	Annex VI of MARPOL 73/78	01 Jan 23

1. UI MPC20 (Rev.1 Corr.2 Feb 2022)

UI MPC20 provides a unified interpretation of MARPOL 73/78 Reg. 13.2.1.1 and 13.2.2. This revision is updated to reflect the amended text of regulation 13.2.2 of MARPOL VI adopted by Resolution MEPC.251(66).

2. UI LL59 (Rev.1 Corr.1 Feb 2022)

UI LL59 provides a unified interpretation of Regulation 26 of ICLL 1966 and Regulation 24 of ICLL 1988. As part of the 10th anniversary review, amendments were made to reorder the text of paragraph 3 for clarity.

3. UI SC123 (Rev.3 Corr.1 Feb 2022)

UI SC123 provides interpretation of SOLAS Regulation II-1/26.11. In Corr.1 of this UI, correction of an editorial error has been made to the second tank as per Example 1.2 (equivalent arrangement).

4. UI GC32 (Rev.1 Feb 2022)

UI GC32 provides a unified interpretation of paragraphs 5.4.4 and 5.13.2.4 of the IGC Code regarding the outer duct in gas fuel piping systems. In Rev.1 of this UI, the expression “duct” in paragraphs 5.4.4 and 5.13.2.4 of the IGC Code and the requirement to be applied to gas valve unit rooms have been clarified.

5. UI GC38 (New Mar 2022)

This UI provides a unified interpretation of the application of design temperature for piping, fittings and related components within the cargo area in paragraph 11.3.6 of the IGC Code in line with MSC.1/Circ. 1617.

6. UI SC261 (Rev.1 Apr 2022)

UI SC261 contains a unified interpretation of performance standards for voyage data recorders (VDRs). This UI was revised due to adoption of MSC.494(104) amending MSC.333(90).

7. UI SC296 (New May 2022)

UI SC296 provides interpretation of paragraph 4.2.1 of Res. MSC.337(91), Code on Noise Levels Onboard Ships, to clarify the noise level limit which is to be applied in workshops not forming part of the engine room.

8. UI SC200 (New Corr.1 May 2022)

UI SC200 provides interpretation of paragraph 2.4 of Chapter 5 of the IMO International Code for Fire Safety Systems as amended by resolution MSC.339(91). Revision 1 is updated for FSS Code editorial changes due to amendments.

9. UI SC201 (Rev.1 Corr.1 May 2022)

This UI regarding location of paint lockers within cargo block provides interpretation of SOLAS Ch. II-2 Regulation 4.5.1.2 and 4.5.1.3 and IBC Code Regulation 3.2.1 as amended by Resolution MSC.176(79). This revision is to update the UI following FSS Code amendments.

10. UI SC204 (New Corr.1 May 2022)

UI SC204 regarding storage of fire-extinguishing media forward the cargo hold provides interpretation of SOLAS Chapter II-2 regulation 10.4.3 and paragraph 2.1.3.3, Chapter 5 of the IMO International Code for Fire Safety Systems (FSS Code), as amended by resolution MSC.206(81). This revision is to update the UI following FSS Code amendments.

11. UI LL81 (New May 2022)

UI LL81 provides Interpretation of Regulation 37(3) of the International Convention on Load Lines 1966, as amended by the Protocol of 1988.

12. UI SC161 (Rev.3 May 2022)

UI SC161 provides interpretation of SOLAS Regulation II-1/5-1 regarding timber deck cargo in the context of damage stability requirements. Revision 3 has been updated following reconsideration the new TDC code (Resolution A.1048(27)) and SOLAS amendments (Resolution MSC.421(98)).

13. UI LL80 (Rev.1 Jun 2022)

UI LL80 provides interpretation of ICLL Regulation 27(13) regarding unprotected openings. This revision is updated to align with MSC.1/Circ.1535/Rev.1.

14. UI SC280 (Rev.1 Jun 2022)

UI SC280 provides interpretation for the 2008 IS Code, International Grain Code and SOLAS II-1 Regulation 7-2 regarding the angle of down-flooding, the angle at which an opening is incapable of being closed weathertight. This revision is updated to align with MSC.1/Circ.1537 and 1539.

15. UI SC218 (Rev.1 Jul 2022)

UI SC218 regarding fire testing of equivalent water-based fire extinguishing systems provides interpretation of IMO MSC/Circ.1165, Appendix B, 4.5.1. This revision reflects the amendments made to MSC/Circ.1165 vide MSC.1/Circ.1237 and MSC.1/Circ.1269.

16. UI SC219 (Rev.1 Jul 2022)

UI SC219 regarding fire testing of equivalent water-based fire extinguishing systems provides interpretation of IMO MSC/Circ.1165, Appendix B, 4.5.1. This revision reflects the amendments made to MSC/Circ.1165 vide MSC.1/Circ.1237 and MSC.1/Circ.1269.

17. UI LL11 (Rev.4 Jul 2022)

UI LL1 provides interpretation of Regulation 22(1) of the ICLL 1966 and of Regulation 22(1)(a) of the 1988 Protocol to ICLL 1966 as amended by resolution MSC.143(77) regarding scupper, inlets and discharges. Revision 4 updates the footnote to clarify sections of the UI applicable for 1966 protocol and sections applicable for 1988 protocol.

18. UI SC297 (New Aug 2022)

UI SC297 provides interpretation of SOLAS chapter II-1, regulations 5.4 and 5.5 (as amended by resolution MSC.421(98)) and of resolution MSC.429(98)/Rev.1 and Rev.2, Explanatory Notes about amendments to stability/loading information in conjunction with the alterations of lightweight. The new UI clarifies which documents need to be updated following a change in the lightweight particulars.

19. UI SC155 (Del. Aug 2022)

UI SC155 is deleted as its requirements have been replaced by UI SC297.

20. UI SC254 (Del. Aug 2022)

UI SC254 was created to provide clear prescriptive requirements for fall preventer devices which were permitted as a temporary measure until changes to SOLAS could be applied. As all lifeboats should have now complied, the UI can be deleted.

21. UI CC6 (Rev.1 Aug 2022)

UI CC6 provides interpretation of paragraph 15.11 Acids of IBC Code regarding the lining approved for use with acids. A new paragraph to clarify the elasticity requirements of a liner fitted in accordance with the IBC Code has been introduced.

22. UI SC217 (New Corr.2 Aug 2022)

UI SC217 provides interpretation of nozzle installation for fixed water-based local application fire-fighting systems for use in category A machinery spaces (MSC/Circ.913). This Corrigenda 2 to IACS UI SC 217 clarifies that while MSC.1/Circ.1387 generally supersedes MSC/Circ.913, the latter remains valid for the approval of new fixed water-based local application fire-fighting systems previously tested in accordance with MSC/Circ.913.

23. UI FTP5 (New Corr.1 Sep 2022)

UI FTP5 pertains to the testing and approval of "A" class division fastening of insulation material and details of joints in interpretation of paragraphs 1.6 and 7.5.1 of IMO Resolution A.754(18) and paragraphs 1.12 and 7.6.1 of 2010 FTP Code, Annex 1, Part 3, Appendix 1. UI FTP5 has been updated to reflect the current text in the 2010 FTP Code and Resolution A.754(18) and to refer to MSC.1/Circ.1435 which is the IMO circular which reflects UI FTP5.

24. UI SC198 (New Corr.1 Sep 2022)

UI SC198 provides interpretation of SOLAS chapter II-2 regulation 10.5.6.3 as amended by resolution MSC.338(91). This revision is amended for editorial purposes.

25. UI HSC8 (New Corr.1 Sep 2022)

UI HSC8 regarding the protection of load bearing structures provides interpretation of paragraph 7.4.2.3 of the 2000 HSC Code. UI HSC8 is updated to include a reference to the related MSC.1/Circ.1457.

26. UI FTP2 (Del. Oct 2022)

UI FTP2 is deleted as its contents are contained in the FTP Code.

27. UI SC250 (New Corr.2 Nov 2022)

UI SC250 provides interpretation of the IMSBC Code, as amended by resolution MSC.462(101) on fire-extinguishing arrangements in cargo spaces. This revision is updated for editorial purposes.

28. UI SC32 (Del. Nov 2022)

This UI has been deleted as the interpretation is included in the FSS Code.

29. UI SC60 (Del. Nov 2022)

This UI has been deleted as the interpretation is included in the FSS Code.

30. UI LL61 (Del. Nov 2022)

UI LL61 is deleted as the contents of the UI are now taken into consideration in the 2008 IS Code.

31. UI FTP4 (Rev.2 Nov 2022)

UI FTP4 provides interpretation of 2010 FTP Code (MSC.307(88)) about fire resistant windows on tankers. UI FTP4 is updated to refer to the current testing of windows, fire dampers, pipe penetrations and cable transits contained in the Appendix of the FTP Code (MSC.307(88)).

32. UI SC298 (New Dec 2022)

This unified interpretation intends to clarify the phrase "installed on or after 1 January 2024" used in various IMO performance standards, related to GMDSS radio installation, adopted at MSC 105 to supplement the amendments to SOLAS IV, as adopted by resolution MSC.469(105).

33. UI MPC14 (Rev.3 Dec 2022)

UI MPC14 provides interpretation of Annex VI of MARPOL 73/78 and this revision takes into account the criteria for ships in IMO Resolutions MEPC.324(78) and MEPC.328(76).

Summary of New/Revisions to IACS Recommendations published in 2022

New Revised Corrigenda Deleted/Withdrawn

Index	Resolution no.	Revision	Adoption	Title	Implemention Date
1	Rec 105	Rev.1 Corr.1	Jan 2022	Qualification scheme for welders of aluminium alloys	-
2	Rec 165	Rev.1	Jan 2022	Recommendation for assessing design instances based on application of alternative methods in the hull structural design of CSR ships	-
3	Rec 95	Rev.1	Mar 2022	Recommendation for the application of SOLAS regulation V/15 Bridge Design, Equipment Arrangement and Procedures (BDEAP)	-
4	Rec 166	New Corr.2	Apr 2022	Recommendation on cyber resilience	-
5	Rec 170	New	May 2022	The term of "heavy load carrier" for the application of EEDI/EEXI and CII	-
6	Rec 171	New	Jun 2022	Recommendation on incorporating cyber risk management into Safety Management Systems	-
7	Rec 172	New	Jun 2022	EEXI implementation guidelines	-
8	Rec 134	Rev.1	Oct 2022	Boat transfers safe practice	-
9	Rec 60	Rev.1 Corr.1	Nov 2022	Intact stability of tankers during liquid transfer operations	-
10	Rec 173	New	Nov 2022	Guidelines on numerical calculations for the purpose of deriving the Vref in the framework of the EEXI regulation	-
11	Rec 34	Rev.2	Dec 2022	Standard wave data	-

1. Rec 105 (Corr.1 Jan 2022)

Rec 105 provides guidance for a qualification scheme for welders intended to be engaged in welding of aluminium alloys specified in UR W25 for hull structures. This revision has been updated to make minor editorial amendments.

2. Rec 165 (Rev.1 Jan 2022)

Rec 165 gives recommendations for assessing alternative (novel) design instance and alternative (novel) design method (technology). This revision has updated guidance for the assessment of alternative (novel) design instances and conventional designs for which alternative (novel) design methods (technology) or alternative design and calculation methods were applied during the design process.

3. Rec 95 (Rev.1 Mar 2022)

Rec 95 sets forth a set of guidelines for determining compliance with the principles and aims of SOLAS regulation V/15 relating to bridge design, design and arrangement of navigational systems and equipment and bridge procedures when applying the requirements of SOLAS regulations V/19, 22, 24, 25, 27 and 28 at the time of delivery of the newbuilding. After a 10th anniversary review, references to external documents were amended and a new line for BNWAS alerts were included in this revision.

4. Rec 166 (Corr.2 Apr 2022)

Rec 166 provides technical information to stakeholders for the development of cyber resilient ships, whose resilience can be maintained throughout their service life. This revision has been updated to incorporate the new paragraph 1.1.6 to specify the relationship between Rec 166 and the new UR E26 Cyber Resilience of Ships.

5. Rec 170 (New May 2022)

Rec 170 provides recommendations on the term of "heavy load carrier" for the consideration of application to EEDI/EEXI and CII, associated with the definition in Regulation 2.2.15 of MARPOL Annex VI.

6. Rec 171 (New Jun 2022)

Rec 171 has been developed with a view to addressing cyber safety issues within the context of MSC-FAL.1-Circ.3, Guidelines on Maritime Cyber Risk Management.

7. Rec 172 (New Jun 2022)

Rec 172 has been developed in response to Resolutions MEPC.333 (76), MEPC.334 (76), and MEPC.335 (76) relating to EEXI.

8. Rec 134 (Rev.1 Oct 2022)

Rec 134 provides classification societies with reference information to be used in developing Boat Transfer procedures or technical instructions for their surveyors, according to a common reference standard of good practice. This revision has been updated to align provisions of the document with Members' own internal procedures/rules, their experience/expertise, as well as relevant requirements/guidelines of IMO, ISO/IEC standards, other international standards, and best practices within the industry.

9. Rec 60 (Corr.1 Nov 2022)

Rec 60 provides recommendations for tankers which are not subject to MARPOL Annex I Regulation 27 regarding intact stability during liquid transfer operation. The Corr.1 updates footnote 2 to refer to the 2008 IS Code rather than UI LL61 which is proposed for deletion.

10. Rec 173 (New Nov 2022)

Rec 173 contains a set of requirements for numerical calculations to be used for the purposes of deriving the Vref in the framework of the EEXI Guidelines.

11. Rec 34 (Rev.2 Dec 2022)

Rec 34 provides advice on sea states by specifying wave spectrum, spreading, heading distribution and vessel speed. Following indications that the representation of North Atlantic waves in Rec 34 (Rev.1 2001) may have become outdated, IACS began work in 2018 on a long-term review of wave data. In this revision of Rec 34, IACS has derived significant wave height from modern data sources for North Atlantic accounting for more extreme weather experienced in recent years, including the possible effects of climate change.