

## Summaries of IACS Resolutions published in 2023









### Summary of New/Revisions to IACS Unified Requirements published in 2023







 New


















 Revised

 Corrigenda

 Deleted/Withdrawn

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 1	CSR	2023	-	Common Structural Rules - Consolidated 01 Jan 2023	1-Jul-23
 2	UR M63	Rev.1	Jan 2023	Alarms and safeguards for emergency reciprocating I.C. engines	1-Jan-24
 3	UR M31	Del	Jan 2023	Continuity of electrical power supply for vessels with periodically unattended machinery spaces	-
 4	UR S21	Rev.6	Jan 2023	Requirements concerning strength of Ships	1-Jul-24
 5	UR S21A	Del	Jan 2023	Requirements concerning strength of Ships	1-Jul-24
 6	UR Z17	Rev.18	Feb 2023	Procedural Requirements for Service Suppliers	1-Jul-23
 7	UR S35	New	Feb 2023	Buckling Strength Assessment of Ship Structural Elements	1-Jul-24
 8	UR I3	Rev.2	Jan 2023	Machinery Requirements for Polar Class Ships	1-Jul-24
 9	UR S10	Rev.7	Feb 2023	Rudders, Sole Pieces and Rudder Horns	1-Jul-24
 10	UR M77	Rev.4	Feb 2023	Storage and use of SCR reductants	1-Jan-24
 11	UR W31	Rev.3	Mar 2023	YP47 Steels and Brittle Crack Arrest Steels	1-Jul-24
 12	UR M82	New	Mar 2023	Type Testing Procedure of Explosion Relief Devices for Combustion Air Inlet and Exhaust Gas Manifolds of I.C. Engines Using Gas as Fuel	1-Jul-24
 13	UR Z10.1	Rev.25	Feb 2023	Hull Surveys of Oil Tankers	1-Jul-24
 14	UR Z10.2	Rev.37	Feb 2023	Hull Surveys of Bulk Carriers	1-Jul-24
 15	UR Z10.4	Rev.18	Feb 2023	Hull Surveys of Double Hull Oil Tankers	1-Jul-24
 16	UR Z10.5	Rev.20	Feb 2023	Hull Surveys of Double Skin Bulk Carriers	1-Jul-24
 17	UR M56	Rev.4 Corr.2	Mar 2023	Marine gears – load capacity of involute parallel axis spur and helical gears	-

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	19	UR G2	Rev.3	May 2023	Liquefied gas cargo tanks and process pressure vessels	1-Jul-24
	20	UR S26	Rev.5	May 2023	Strength and Securing of Small Hatches on the Exposed Fore Deck	1-Jul-24
	21	UR Z17	Rev.18 Corr.1	May 2023	Procedural Requirements for Service Suppliers	-
	22	UR Z23	Rev.7 Corr.2	May 2023	Hull Survey for New Construction	-
	23	UR Z11	Rev. 6	May 2023	Mandatory Ship Type and Enhanced Survey Programme (ESP) Notations	1-Jul-24
	24	UR M53	Rev. 5	May 2023	Calculations for I.C. Engine Crankshafts	1-Jul-24
	25	UR M73	Rev. 2	May 2023	Turbochargers	1-Jul-24
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	29	UR S3	Rev.2	Jun 2023	Strength of End Bulkheads of Superstructures and Deckhouses	1-Jul-24
	30	UR M81	Rev.1	Jul 2023	Safety measures against chemical treatment fluids used for exhaust gas cleaning systems and the residues which have hazardous properties	1-Jul-24
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	33	UR E10	Rev.9	Aug 2023	Test Specification for Type Approval	1-Jul-24
	34	UR M24	Rev.2	Aug 2023	Requirements concerning use of crude oil or slops as fuel for tanker boilers	1-Jan-25
	35	UR M46	Rev.3	Aug 2023	Ambient conditions – Inclinations and Ship Accelerations and Motions	1-Jan-25
	36	UR E26	Withdrawal	Sep 2023	Cyber resilience of ships	-
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	39	UR F15	Rev.7	Sep 2023	Reinforced thickness of ballast and cargo oil piping	1-Jan-25
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	42	UR P2.1	Rev.3	Oct 2023	Rules for piping design, construction and testing - Application	1-Jan-25
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	47	UR P2.11	Rev.6	Oct 2023	Type approval of mechanical joints	1-Jan-25
	48	UR G3	Rev.8	Oct 2023	Liquefied gas cargo and process piping	1-Jan-25
	49	UR W35	Rev.1	Oct 2023	Requirements for NDT Service Suppliers	1-Jan-25
	50	UR M83	New	Oct 2023	Testing of the Control System of Controllable Pitch Propellers intended for Main Propulsion	1-Jan-25
	51	UR E26	Rev.1	Nov 2023	Cyber resilience of ships	1-Jul-24
	52	UR L2	Rev.3	Nov 2023	Intact stability – matter of class	1-Jan-25
	53	UR F42	Del	Nov 2023	Fire testing of flexible pipes	-
	54	CSR	2023 RCN1	Dec 2023	IACS CSR for Bulk Carriers and Oil Tankers	1-Jul-24

## 1. CSR 2023

Common Structural Rules (CSR) consist of two parts. Part One provides requirements common to both double hull oil tankers and bulk carriers and Part Two provides additional requirements applied to either double hull oil tankers or bulk carriers. The consolidated version of CSR 2023 was issued in March 2023 and came into force on 1 July 2023.

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## 2. UR M63 (Rev.1 Jan 2023)

UR M63 provides test specification for alarms and safeguards for emergency internal combustion (I.C.) engines. In Rev.1 of this UR, the scope of required alarms and safeguards for fuel oil leakage in UR M63 has been clarified compared with UR M35 and M36.

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## 3. UR M31 (Del Jan 2023)

UR M31 which contains no additional requirements to SOLAS except for the '45 seconds' requirement was deleted.

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## 4. UR S21 (Rev.6 Jan 2023)

UR S21 provides test specification for evaluation of scantlings of hatch covers and hatch coamings and closing arrangements of cargo holds of ships. In Rev.6 of this UR, the buckling requirements are improved based on latest CSR buckling requirements. Then UR S21 and S21A are harmonised and combined as a single UR S21 Rev.6. and UR S21A is deleted since 1 July 2024.

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## 5. UR S21A (Del Jan 2023)

The requirements in UR S21A are harmonised with S21, which are then included in UR S21 Rev.6. UR S21A is deleted on the implementation of UR S21 Rev.6.

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## 6. UR Z17 (Rev.18 Feb 2023)

UR Z17 provides procedural requirements for approval and certification of service suppliers and is applicable to both initial and renewal audits. Rev.18 is revised to delete the requirement for an ISO/IEC accreditation for service suppliers for BWMS Commissioning Testing.

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## 7. UR S35 (New Feb 2023)

UR S35 provides common buckling requirements, following the CSR buckling methodology, for all relevant IACS UR-S resolutions such as UR S21 (Rev.6, Jan 2023 Complete Revision). In UR S35-Buckling, it consists of five sections and one appendix, giving Application and Definitions, Slenderness Requirements, Buckling Requirements for Hull Girder Prescriptive Analysis, Buckling Requirements for Direct Strength Analysis of Hatch Covers, Buckling Capacity, and the Stress-based Reference Stress calculation method, respectively.

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## 8. UR I3 (Rev.2 Jan 2023)

UR I3 is the machinery requirement for polar class ships regarding main propulsion, steering gear, emergency and auxiliary systems essential for the safety of the ship and the crew. In Rev.2 of this Resolution, comprehensive amendments, including introduction of requirements for icebreaker vessels, have been made.

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## 9. UR S10 (Rev.7 Feb 2023)

UR S10 provides technical requirements on structure of the rudders, sole pieces and rudder horns. In Rev.7, the technical content of UR S10 has been improved and clarified based on feedback received from Industry and Members' practical experience. Additionally, this revision provides some clarifications through the introduction and/or modification of figures.

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### **10. UR M77 (Rev.4 Feb 2023)**

UR M77 provides technical requirements on the arrangements for the storage and use of SCR reductants. In Rev.4 of this Resolution, it clarified the application of UR M77 in a viewpoint of quantity and object.

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### **11. UR W31 (Rev.3 Mar 2023)**

UR W31 defines the requirements on YP47 steels and brittle crack arrest steels as required by UR S33. Rev.3 is dealing with the approval scheme of small-scale test methods for brittle crack arrest steels. Requirements for testing and approval procedures have been revised and developed.

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### **12. UR M82 (New Mar 2023)**

UR M82 provides test requirements for pressure relief systems on air inlet and exhaust gas manifolds of internal combustion engines using gas as fuel. The objective of this UR is to specify type testing procedure for explosion relief devices (ERDs) for combustion air inlet manifold and exhaust gas manifold of internal combustion engines using gas as fuel.

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### **13-16. Revision to UR Z10.1, Z10.2, Z10.4 and Z10.5**

UR Z10.1, Z10.2, Z10.4 and Z10.5 provide requirements for hull surveys of Oil Tankers, Bulk Carriers, Double Hull Oil Tankers and Double Skin Bulk Carriers. These revisions are to harmonise the revised requirements in line with the amendments made to ESP Code in Res.MSC.525(106).

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### **17. UR M56 (Rev.4 Corr.2 Mar 2023)**

UR M56 provides requirements for the capacity of involute parallel axis spur and helical gears. These requirements apply to enclosed gears, both intended for main propulsion and for essential auxiliary services. In Rev.4 Corr.2 of this Resolution, reference to an industry standard has been corrected.

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### **18. UR M72 (Rev.3 Apr 2023)**

UR M72 provides requirements for the certification of engine components. This revision of the UR provides clarifications regarding the NDE requirements of Engine Components. Non-destructive examination means e.g., ultrasonic testing, crack detection by MPI or DP. When certain NDE method on the finished component is impractical (for example UT for items 12/13), the NDE method can be performed at earlier appropriate stages in the production of the component, see M72.1.2.

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### **19. UR G2 (Rev.3 May 2023)**

UR G2 provides the general principles applied by Classification Societies for the approval and survey of liquefied gas cargo tanks and process pressure vessels, specifically independent cargo tanks type C (pressure cargo tanks) as defined in the International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk (IGC Code). Rev.3 of UR G2 provides updates regarding the new IGC Code (MSC 370(93)) Corr.1 and Revised UR W1.

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### **20. UR S26 (Rev.5 May 2023)**

UR S26 is the requirement of the strength of, and securing devices for, small hatches fitted on the exposed fore deck. In Revision 5, a sentence has been incorporated to clarify that small hatches classified as non-weathertight, as per UI LL64, are exempt from the requirements of UR S26.

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## **21. UR Z17 (Rev.18 Corr.1 May 2023)**

UR Z17 provides procedural requirements for approval and certification of service suppliers and is applicable to both initial and renewal audits. In Corr.1 to Rev.18 of this UR, reference to Resolution MSC.388(94) which amended IMO Resolution A.761(18) in November 2014 was added in Section 5 of Annex 1 to this UR.

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## **22. UR Z23 (Rev.7 Corr.2 May 2023)**

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. This revision is to update the reference in appendix 2 due to adoption of Resolution MSC.454(100) which revoked Resolution MSC.296(87).

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## **23. UR Z11 (Rev.6 May 2023)**

UR Z11 provides requirement for the Mandatory Ship Type and Enhanced Survey Programme (ESP) Notations for various ship types. In Rev.6 of this UR, an update was made to maintain the consistency with the outcome of previous work related to the definition of oil tankers which was reflected in UR Z10.1(Rev.25) and UR Z10.4(Rev.18).

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## **24. UR M53 (Rev.5 May 2023)**

UR M53 provides rules for the design of crankshafts are to be applied to I.C. engines for propulsion and auxiliary purposes, where the engines are capable of continuous operation at their rated power when running at rated speed. The Revision 5 of this UR provides amendments to the formula for the calculation of the acceptability factor (Q) for crankpin fillet & journal fillet in Appendix IV, paragraph 4.3.

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## **25. UR M73 (Rev.2 May 2023)**

UR M73 is applicable to turbochargers with regard to design approval, type testing and certification and matching to engines. In Rev.2 of this UR, clarifications have been provided as regards the expression 'totally new design', the type testing load cycles and the containment test.

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## **26. UR E22 (Rev.3 June 2023)**

UR E22 provides requirements for Computer-based Systems. This revision is intended to improve and clarify the requirements for computer-based system during design, construction, commissioning and maintenance, including better clarification of the system integrator. Objective of this revision is to ensure that UR E22 provides a minimum set of requirements to suppliers and system integrators of software-based automation that ensures that both individual systems and the total integrated functionality is of high quality and safe for use.

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## **27. UR A1 (Rev.8 June 2023)**

UR A1 provides requirements on anchoring equipment. In this revision, there are clarifications and updates to anchoring equipment requirements, including specifying the purpose of anchoring equipment, addressing the application of UR A1, introducing an alternative method for calculating anchoring equipment, outlining requirements specific to anchoring equipment for tugs, and allowing the use of wire rope as a substitute for chain cable.

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## **28. UR S10 (Rev.7 Corr.1 June 2023)**

UR S10 provides technical requirements on structure of the rudders, sole pieces and rudder horns. The Corrigendum for Revision 7 of UR S10 has been prepared to correct the editorial error with respect to the rudder stock diameter's formula in S10.4.2.

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### **29. UR S3 (Rev.2 June 2023)**

UR S3 provides technical requirements on strength of end bulkheads of superstructures and deckhouses. The Revision 2 of UR S3 has been developed to consider the minimum thickness of plating for ships with L1<65m stipulated in S3.4.

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### **30. UR M81 (Rev.1 July 2023)**

UR M81 provides minimum technical requirements for exhaust gas cleaning systems using chemical treatment fluids and residues which have hazardous properties. In the revision, requirements for the EGCS discharge lines has been added.

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### **31. UR Z10.3 (Rev.21 Aug 2023)**

UR Z10.3 provides requirements for hull surveys of Chemical Tankers. In revision 21 of this UR, the reference of Owner's Inspection Report has been added in Section 6.3.1 (Supporting Documents) to update this UR and to improve the consistency with the other UR Z10s.

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### **32. UR M61 (Rev.2 Aug 2023)**

UR M61 provides starting arrangements of internal combustion engines. In Rev.2 of this Resolution, the acceptable percentage of air compressor capacity used for main engine starting has been clarified.

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### **33. UR E10 (Rev.9 Aug 2023)**

UR E10 provides technical requirements for test specification for Type Approval of electrical, electronic and programmable equipment intended for control, monitoring, alarm and protection systems for use in ships. In Rev.9 of this Resolution, the way to proceed in case the specified industry standard is not the last revision issued has been indicated.

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### **34. UR M24 (Rev.2 Aug 2023)**

UR M24 provides requirements for tankers where crude oil or slops are used as fuel for boilers. This revision clarifies that the UR will not be applicable when low flash point crude oil is used, and the design is subject to SOLAS regulation II-1/55.

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### **35. UR M46 (Rev.3 Aug 2023)**

UR M46 provides ambient conditions applied to the layout, selection and arrangement of shipboard machinery, equipment and appliances for inclinations and ship accelerations and motions to ensure proper operation. This revision address clarity issues based on in-service experience and external feedback and the means for demonstrating compliance by machinery manufacturers and shipbuilders.

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### **36. UR E26 (Withdrawn Sep 2023)**

Recognising the need for a standardised approach to survey requirements, a meticulous revision (Rev1) addressed industry feedback and will take effect on 01 July 2024. To address challenges in implementing cyber requirements in smaller vessels, the applicability was categorised into mandatory and non-mandatory compliance. To eliminate confusion, the original version of UR E26 was withdrawn, ensuring a unified approach and avoiding discrepancies in implementation dates and scope of applicability.

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### **37. UR E27 (Rev.1 Sep 2023)**

UR E27 aims to ensure system integrity is secured and hardened by third-party equipment suppliers. In this revision, UR E27 aims to ensure system integrity is secured and hardened by third-party equipment suppliers. 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 on board, as well as product design and development requirements for new devices before their implementation onboard ships.

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### **38. UR W27 (Rev.3 Sep 2023)**

UR W27 provides requirements for the manufacture, inspection and repair procedures of cast steel propellers, blades and bosses. The revised version removes the permissibility of a modified Zone A for defect repair in Paragraph 11.5. Additionally, minor edits and clarifications were made, and definitions of linear and non-linear indications were updated to align with ISO 23277:2015.

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### **39. UR F15 (Rev.7 Sep 2023)**

UR F15 provides requirements for reinforced thickness of ballast and cargo oil piping. In Rev.7, the words 'not glands' are deleted and two definitions of 'expansion bends' and 'heavy flanges joints' are added so as to eliminate possible misunderstanding or confusion.

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### **40. UR W24 (Rev.5 Sep 2023)**

UR W24 provides requirements for the manufacture, inspection and repair procedures of cast copper alloy propellers, blades and bosses. The revision involves deleting the permissibility of a modified Zone A for defect repair in Paragraph 11.3. Minor edits and clarifications were made, and definitions of linear and non-linear indications were updated to align with ISO 23277:2015.

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### **41. UR G1 (Rev.3 Corr.3 Sep 2023)**

UR G1 provides requirements for approval and survey of the relevant items of vessels with cargo containment system for liquefied gas for classification purposes. Rev.3 Corr.3 of UR G1 is made in order to modify editorial errors on formulas in Table 1 and appendix 1.

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### **42. UR P2.1 (Rev.3 Oct 2023)**

UR P2.1 provides application of rules for piping design, construction and testing. In Rev.3 of this UR, the applicability of UR P2 has been clarified, in relation to IMO instruments such as IBC Code, IGC Code and IGF Code.

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### **43. UR P2.2 (Rev.5 Oct 2023)**

UR P2.2 provides details on classes of pipes of piping systems installed on board ships. In Rev.5 of this UR, Table 1 has been revised.

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### **44. UR P2.7.3 (Rev.3 Oct 2023)**

UR P2.7.3 provides requirements on slip-on threaded joints of piping systems installed on board ships. In Rev.3 of this UR, the use of threaded joints for small bore instrumentation equipment into piping systems conveying flammable media has been investigated and clarified.

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### **45. UR P2.7.4 (Rev.11 Oct 2023)**

UR P2.7.4 provides requirements on mechanical joints of piping systems installed on board ships. In Rev.11 of this UR, the requirements for mechanical joints were reviewed with respect to definition, applicability and size limitation.

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### **46. UR P2.9 (Rev.3 Oct 2023)**

UR P2.9 provides requirements for pressure tests of piping after assembly on board. This revision provides alternative pressure test as pneumatic leak testing for water sensitive system.

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### **47. UR P2.11 (Rev.6 Oct 2023)**

UR P2.11 provides requirements for Type Approval of Mechanical Joints on board. In Rev.6 of this UR, the requirements for mechanical joints were reviewed to align with revision work conducted for UR P2.7.4.

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#### **48. UR G3 (Rev.8 Oct 2023)**

UR G3 provides requirements for approval and survey of the relevant items of liquefied gas tankers for classification purposes. Revision 8 provides revised requirements for cargo pumps and gas/reliquefaction/refrigeration compressors as regards design assessment, material testing, prototype testing, unit production and installation testing.

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#### **49. UR W35 (Rev.1 Oct 2023)**

UR W35 provides requirements for NDT service suppliers. This latest revision (revision 1) addresses issues raised by the NDT industry regarding implementation of this UR W35, particularly regarding level 3 supervisor.

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#### **50. UR M83 (New Oct 2023)**

UR M83 provides requirements for the testing of the control system of controllable pitch propellers intended for main propulsion.

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#### **51. UR E26 (Rev.1 Nov 2023)**

UR E26 aims to ensure the secure integration of both operational technology and information technology equipment into the vessel's network during the design, construction, commissioning, and operational life of the ship. 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. This revision includes requirements for the suppliers to demonstrate compliance with the requirements in this UR.

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#### **52. UR L2 (Rev.3 Nov 2023)**

UR L2 requires that class will only be assigned to ships with a length of 24 m and above after demonstrating adequate intact stability. This revision considers the amendments to Resolution MSC.267(85), Intact Stability Code, since revision 2.

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#### **53. UR F42 (Del Nov 2023)**

UR F42 has been deleted as all requirements are considered by UR P2 section 12 Flexible Hoses.

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#### **54. CSR 2023 RCN1 (Dec 2023)**

Rule Change Notice 1 (RCN1) to CSR 2023 version was published as outcomes of regular CSR maintenance.

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## Summary of New/Revisions to IACS Unified Interpretations published in 2023

 New

 Revised

 Corrigenda

 Deleted/Withdrawn

Index	Resolution no.	Revision	Adoption	Title	Implementation Date
 1	UI SC127	Rev.2 Corr.1	Jan 2023	Paints, varnishes and other finishes	-
 2	UI SC120	Rev.2 Corr.1	Jan 2023	Access to forecastle spaces on tankers	-
 3	UI LL16	Rev.2	Jan 2023	Sheer	-
 4	UI SC121	Rev.2	Jan 2023	Fire Pump Isolation Requirements	1-Jul-23
 5	UI SC245	Rev.1	Jan 2023	Suction and discharge piping of emergency fire pumps, which are run through the machinery space	1-Jul-23
 6	UI SC138	New Corr.1	Feb 2023	Safe Access to Tanker Bows	-
 7	UI SC30	Rev.3	Mar 2023	Fire-extinguishing arrangements in machinery spaces	-
 8	UI SC121	Rev.2 Corr.1	Apr 2023	Fire Pump Isolation Requirements	-
 9	UI SC70	Rev.4 Corr.1	Apr 2023	Cargo tank vent systems and selection of electrical equipment	-
 10	UI MPC125	Rev.1	May 2023	Technical Code on Control of Emission of Nitrogen Oxides from Marine Diesel Engines (NOx Technical Code 2008, Chapter 4, Paragraph 4.4.6.1)	1-Jan-24
 11	UI GF13	Rev. 1	May 2023	Fire protection of spaces containing equipment for the fuel preparation	1-Jan-24
 12	UI SC299	New	Jul 2023	Watertight testing after fire testing of penetrations in watertight divisions in passenger ships	1-Jul-24
 13	UI SC123	Rev.5	Jul 2023	Machinery Installations - Service Tank Arrangements	1-Jul-24
 14	UI GC13	Rev.3	Aug 2023	Verifications before and after the first loaded voyage	1-Jan-24
 15	UI SC300	New	Aug 2023	Containment of fire: details of fire insulation of duct penetrations	1-Jul-24
 16	UI GC39	New	Sep 2023	Interpretation of 2014 IGC Code (MSC.370(93), as amended) Paragraphs 11.3.1, 11.4.1, 11.4.3 and 18.10.3.2 w.r.t additional bunkering manifold equipment fitted on L.N.G. Bunkering Ships	1-Jul-24
 17	UI SC120	Rev.2 Corr.2	Oct 2023	Access to forecastle spaces on tankers	-

Index	Resolution no.	Revision	Adoption	Title	Implementation Date
18	UI SC265	Del	Nov 2023	Revised guidelines for cargo securing manual and code of safe practice for cargo stowage and securing - scope of application	-
19	UI SC212	Rev.1	Nov 2023	Shipboard fittings and supporting hull structures associated with towing and mooring on conventional vessels	1-Jan-24
20	UI SC298	Corr.1	Nov 2023	Interpretations of various Performance Standards related to GMDSS radio installations	-
21	UI MPC12	Corr.2	Dec 2023	Annex VI of MARPOL 73/78	-
22	UI MPC29	Rev.2	Dec 2023	Annex VI of MARPOL 73/78	1-Jul-24
23	UI SC264	Corr.1	Dec 2023	Non-combustible material as 'steel or equivalent' for ventilation ducts (SOLAS II-2/Reg. 9.71.1)	-
24	UI GF19	New	Dec 2023	Fuel Supply to Consumers – single common flanges	1-Jul-24

### 1. UI SC127 (Rev.2 Corr.1 Jan 2023)

UI SC127 regarding paints, varnishes and other finishes provides a unified interpretation of SOLAS Chapter II-2, Regulation 6.2.1. This revision is updated to include the text of SOLAS II-2/6.2 as amended by resolution MSC.57(67).

### 2. UI SC120 (Rev.2 Corr.1 Jan 2023)

UI SC120 provides acceptance criteria equivalent to those foreseen in SOLAS regulation II-2/4.5.2.2 and paragraph 3.2.3 of IBC Code on the basis of which the location of access door to forward spaces in position facing the cargo area may be accepted. In this corrigenda, reference to the IGC Code has been clarified to include the relevant resolution as the interpretation has already been included in the revised IGC Code i.e. 2016 IGC Code.

### 3. UI LL16 (Rev.2 Jan 2023)

UI LL16 provides interpretation of Regulation 38 of the International Convention on Load Lines, 1966 and of the 1988 Protocol as adopted by the International Conference on the Harmonized System of Survey and Certification. This revision is updated to indicate that UI is applicable only for ships built in accordance with 1966 ICLL or the original 1988 Protocol. It is not applicable to the 1988 Protocol as amended by resolution MSC.143(77).

### 4. UI SC121 (Rev.2 Jan 2023)

UI SC121 provides interpretation for fire pump isolation requirements when fire main is routed through a category A machinery space. This revision is updated to clarify the text and highlight conditions where small lengths of piping may be permitted without an isolation valve provided it meets the requirements of SOLAS II-2/10.2.1.4.1

## **5. UI SC245 (Rev.1 Jan 2023)**

UI SC245 regarding suction and discharge piping of emergency fire pumps, which are run through the machinery space, provides a unified interpretation of SOLAS II-2 Regulation 10.2.1.4.1. Minor changes were made in Rev.1 to the text to improve the technical understanding of the text.

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## **6. UI SC138 (New Corr.1 Feb 2023)**

UI SC138 contains a unified interpretation of SOLAS Chapter II-1, Regulation 3-3.2. This revision is editorially amended to delete the outdated revision number for the referenced UI LL50.

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## **7. UI SC30 (Rev.3 Mar 2023)**

UI SC30 provides a unified interpretation of SOLAS Chapter II-2, Regulation 10.5.1 and 10.5.2. This revision is updated to include the text of SOLAS Regulation II-2/10.5.1.2.2 as adopted by MSC.409(97), which entered into force on 1 January 2020.

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## **8. UI SC121 (Rev.2 Corr.1 Apr 2023)**

UI SC121 provides interpretation for fire pump isolation requirements when fire main is routed through a category A machinery space. This corrigenda has replaced the wording 'constructed' with 'contracted for construction' in the application statement.

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## **9. UI SC70 (Rev.4 Corr.1 Apr 2023)**

UI SC70 regarding cargo tank vent systems and selection of electrical equipment provides interpretation of SOLAS II-2/11.6.2.2 and SOLAS II-2/4.5.4.3.1. In Corr.1 of this Resolution, editorial errors included when the clean version of Rev.4 of this UI was produced have been corrected.

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## **10. UI MPC125 (Rev.1 May 2023)**

UI MPC125 provides a unified interpretation on Technical Code on Control of Emission of Nitrogen Oxides from Marine Diesel Engines (NOx Technical Code 2008, Chapter 4, Paragraph 4.4.6.1). Rev.1 clarifies the engine family concept issues (when number and arrangement of cylinders are different, but SCR parameters proven that NOx emission is either constant or lower than related parent engine).

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## **11. UI GF13 (Rev.1 May 2023)**

UI GF13 provides a unified interpretation on ships constructed on or after 1 January 2024 as defined in paragraph 2.2.42 of the IGF Code and Chapter 11.3.1. Rev.1 clarifies means of fire protection system based on Resolution MSC.475(102) for Fuel preparation rooms.

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## **12. UI SC299 (New July 2023)**

UI SC299 provides clarity on the provisions of SOLAS II-1 Regulation 13 when considering the requirements for testing of penetrations in watertight divisions after fire.

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## **13. UI SC123 (Rev.5 July 2023)**

UI SC123 provides interpretation of SOLAS Regulation II-1/26.11. In this revision, a footnote has been introduced to include examples of equivalent arrangements (1.2 & 2.2) for sake of clarity.

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#### **14. UI GC13 (Rev.3 Aug 2023)**

UI GC13 provides interpretation of paragraphs 4.20.3.5, 4.20.3.6, 4.20.3.7, 5.13.2.5 and 13.3.5 of the International Code for the Construction and Equipment of Ships Carrying Liquid Gases in Bulk (IGC Code), as amended by Res. MSC.370(93), in relation to how to carry out the verifications and examinations required during the first full loading and discharging of the cargo. Rev.3 is to update this resolution in line with 2014 IGC Code (Resolution MSC 370(93)), include its applicability to all gas carriers (not only LNG Carriers), and clarify the scope of the verifications to be carried out by surveyors.

#### **15. UI SC300 (New Aug 2023)**

UI SC300 regarding the details of fire insulation of duct penetrations provides a unified interpretation of requirements in SOLAS regulations II-2/9.7.3.1.2 and II-2/9.7.3.2, with a view to facilitating their consistent and global implementation.

#### **16. UI GC39 (New Sep 2023)**

UI GC39 has been developed with a view to providing clarity on the provisions of 2014 IGC Code paragraphs 11.3.1, 11.4.1, 11.4.3 and 18.10.3.2, when considering LNG Bunkering ships fitted with cargo transfer equipment in addition to traditional cargo manifolds.

#### **17. UI SC120 (Rev.2 Corr.2 Oct 2023)**

UI SC120 provides acceptance criteria equivalent to those foreseen in SOLAS regulation II-2/4.5.2.2, paragraph 3.2.3 of the IBC Code, and paragraph 3.2.4 of the 1983 IGC Code, on the basis of which the location of access door to forward spaces in position facing the cargo area may be accepted. In this corrigendum, the note 2 was modified to correctly capture the understanding that IACS UI SC 120 (Rev.2) applies to oil tankers and chemical tankers, and to gas carriers constructed on or after 1 July 1986 but before 1 July 2016.

#### **18. UI SC265 (Del Nov 2023)**

UI SC265 is deleted as all recommendations are considered by MSC.1/Circ.1352/Rev.1.

#### **19. UI SC212 (Rev.1 Nov 2023)**

UI SC212 Rev.1 was developed in order to clarify new requirements of SOLAS regulation II-1/3-8, adopted by MSC Resolution MSC.474(102) and to also include modifications based on the outcome of review of MSC.1/Circ.1362/Rev.2.

#### **20. UI SC298 (Corr.1 Nov 2023)**

UI SC298 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). This revision is to align with the IMO's extension for the continued installation equipment compliant with the previous performance standards until 1 January 2028.

#### **21. UI MPC12 (Corr.2 Dec 2023)**

UI MPC12 provides a unified interpretation regarding the term 'all ships' in Annex VI of MARPOL 73/78. This revision is to update the UI to take account of IMO resolution MEPC.328(76).

#### **22. UI MPC29 (Rev.2 Dec 2023)**

UI MPC29 provides interpretation of the application of MARPOL Annex VI regulation 18(3). The revision was based on the periodical review of the UI taking account of IMO Circular MEPC.1/Circ.795/Rev.8.

### **23. UI SC264 (Corr.1 Dec 2023)**

UI SC264 provides an interpretation of the term 'non-combustible material' for ventilation ducts (SOLAS II-2/Reg.9.7.1.1. This corrigenda considers the amendments to SOLAS text (MSC.365(93)) that entered into force 1 January 2016; the interpretation remains unchanged.

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### **24. UI GF19 (New Dec 2023)**


UI GF19 is based on IMO MSC.1/Circ.1670 with respect to Fuel Supply to consumers – single common flanges, IGF Code Part A-1 Section 9.2.2 with clearly indicating application date in force.

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## Summary of New/Revisions to IACS Recommendations published in 2023

 New
  Revised
  Corrigenda
  Deleted/Withdrawn

Index	Resolution no.	Revision	Adoption	Title	Implementation Date	
	1	Rec 73	Rev.2	Jan 2023	Type approval procedure for cable trays/protective casings made of plastics materials	-
	2	Rec 31	Rev.3	Apr 2023	Recommended procedure for inclining test	-
	3	Rec 175	New	Apr 2023	SEEMP/CII Implementation Guidelines	-
	4	Rec 96	Rev.2	May 2023	Double Hull Oil Tankers - Guidelines for Surveys, Assessment and Repair of Hull Structures	-
	5	Rec 10	Rev.5	Jun 2023	Chain Anchoring, Mooring and Towing Equipment	-
	6	Rec 174	New	Jul 2023	Recommended procedure for the finite element analysis to assess yielding, buckling and fatigue strength of IGC Code type C tanks	-
	7	Rec 176	New	Sep 2023	Measurement of Underwater Radiated Noise	-
	8	Rec 116	Del	Sep 2023	Performance Standard for Protective Coatings for Cargo Oil Tanks of Crude Oil Tankers – 5 years field exposure test in accordance with MSC.288(87)	-
	9	Rec 53	Rev.1	Oct 2023	Periodic Survey and Testing of Foam Concentrates, CO2 and Halon Containers	-
	10	Rec 131	Rev.1	Nov 2023	Guidelines for application of SOLAS Ch.II-2 Reg. 4.5.7.3.2 for accepting constant operative inerting systems (COIS) as an alternative to fixed hydrocarbon gas detection equipment in double hull and double bottom spaces on oil tankers	-
	11	Rec 26	Rev.2	Nov 2023	Spare Parts for Main Internal Combustion Engines of Ships for Unrestricted Service	-
	12	Rec 151	Rev.2	Nov 2023	Recommendation for fuel oil treatment systems	-
	13	Rec 24	Rev.7	Nov 2023	Intact stability	-
	14	Rec 178	New	Dec 2023	Earthing Guidelines for Maritime Industry	-
	15	Rec 73	Rev.3	Dec 2023	Type approval procedure for cable trays/protective casings made of plastics materials	-

Resolution Index	Resolution no.	Revision	Adoption	Title	Implementation Date
 16	Rec 177	New	Dec 2023	Shipbuilding and Remedial Quality Standard for Machinery Piping Systems	-
 17	Rec 179	New	Dec 2023	Recommendation for Valve Regulated Lead Acid (VRLA) Starting Batteries of Emergency Generators	-

### 1. Rec 73 (Rev.2 Jan 2023)

Rec 73 provides guidance for the type approval procedure for cable trays/protective casings made of plastics materials. In Rev.2 of this Recommendation, the surface sensitivity in section 4.1 has been revised from 106 to 108 Ohm [ $\Omega$ ].

### 2. Rec 31 (Rev.3 Apr 2023)

Rec 31 gives recommendations for achieving a satisfactory accuracy in the determination of the lightship weight and of the coordinates of its centre of gravity. This revision has updated to ensure consistency with Annex 1 of the 2008 IS Code.

### 3. Rec 175 (New Apr 2023)

Rec 175 aims to address issues in relation to SEEMP/CII verification and provide guidance for supporting the implementation of IMO SEEMP/CII as per reg. 26 and 28 of MARPOL Annex VI. In the context of SEEMP, the emphasis is on implementation of SEEMP Part III, specifically, as per reg. 26.3.

### 4. Rec 96 (Rev.2 May 2023)

Rec 96 gives guidelines for a double hull oil tanker which is constructed primarily for the carriage of oil in bulk and has the cargo tanks forming an integral part of the ship's hull protected by a double hull which extends for the entire length of the cargo area, consisting of double sides and double bottom spaces for the carriage of water ballast or void spaces. This revision has been updated to maintain the consistency with the outcome of previous work related to the definition of oil tankers which was reflected in UR Z10.4(Rev.18).

### 5. Rec 10 (Rev.5 June 2023)

Rec. 10 provides recommendations for anchoring, mooring and towing equipment. In this revision, a new appendix for alternative direct calculation of anchoring equipment is introduced to allow this new methodology of determination of anchoring equipment.

### 6. Rec 174 (New July 2023)

Rec 174 aims to provide general information and details for the finite element analysis of single-cylinder and multi-lobe shape IGC Code type C tanks. Additionally well-established international codes for design by analysis may be referenced as required. e.g., ASME Sec VIII Div. 2.

### 7. Rec 176 (New Sep 2023)

Rec 176 has been developed to address safety concerns and experience of working in situ with large ships in open waters, and intended to harmonise and present a single method for the measurement of underwater radiated noise and detail a consistent analysis/post processing means and reporting standard.



### **8. Rec 116 (Del Sept 2023)**

Rec 116 was deleted in September 2023 as all recommendations are considered by UI SC259 (Corr.1 Oct. 2014)

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### **9. Rec 53 (Rev.1 Oct 2023)**

Rec 53 provides recommendations for periodic survey and testing of foam concentrates, CO2 and halon containers. Changes made in this revision aligns the provisions with those in MSC.1/Circ.1318/Rev.1 on 'Revised guidelines for the maintenance and inspections of fixed carbon dioxide fire-extinguishing systems'. Further, editorial changes were made keeping in view the recommendatory nature of the document and to update the references made from the document.

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### **10. Rec 131 (Rev.1 Nov 2023)**

Rec 131 contains guidelines for application of SOLAS Ch.II-2 Reg. 4.5.7.3.2 for accepting a constant operative inerting systems (COIS) as an alternative to fixed hydrocarbon gas detection equipment in double hull and double bottom spaces on oil tankers. This revision has been developed to consider relevant amendments to IMO instruments within the last decade.

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### **11. Rec 26 (Rev.2 Nov 2023)**

Rec 26 provides guidelines on spare parts for main internal combustion engines of ships for unrestricted service. The Recommendation has been revised to recommend a risk-based approach to determination of the minimum spare parts to be carried on board.

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### **12. Rec 151 (Rev.2 Nov 2023)**

Rec 151 provides recommendation for the treatment of fuel oil on board ships and procedures for tests to confirm the ability of RMF fuel oil pumps operation with marine fuels with low viscosity. This revision was made to reflect 'non-mandatory' nature of the document and improve technical consistency of recommendation.

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### **13. Rec 24 (Rev.7 Nov 2023)**

Rec 24 provides recommendations on values to be used in context of UR L2 intact stability assessment of ships with a length of 24 m and above. This revision considers changes with respect to the amendments to MSC.267(85) Intact Stability Code.

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### **14. Rec 178 (New Dec 2023)**

Rec 178 provides best practices for protective earthing for steel, aluminium, mobile or fixed offshore units and non-metallic vessels. The recommendations are designed to identify best practices for ship and offshore installations. The recommendations also will address specific earthing, where required for cyber systems.

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### **15. Rec 73 (Rev.3 Dec 2023)**

Rec 73 provides guidance for the type approval procedure for cable trays/protective casings made of plastics materials. In Rev.3 of this Recommendation, the resistivity test requirement in section 4.1 has been revisited, referring to the latest publication of IEC standard and contacting IEC TC in charge.

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### **16. Rec 177 (New Dec 2023)**

Rec 177 provides guidance to improve the quality standards in terms of fabrication, installation, commissioning and function tests of machinery piping systems onboard ship.

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### **17. Rec 179 (New Dec 2023)**

Rec 179 provides guidance to address the protection of VRLA batteries and their charging facilities in emergency generator installations, to prevent excessive gas evolution, which can lead to thermal runaway.

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