

Type of newsletter: **CLASS NEWSLETTER, Rules for the classification of ships, edition January 2023**
Number: **10.01.2023, revision 0**

APPLICATION:

Type of ships: **Vessels subject to CRS class requirements**
Flag(s): -

Release of the Rules for the classification of ships, edition January 2023

CRS is pleased to announce the release of the January 2023 edition of the Rules for the classification of ships which can be downloaded from the following address:

<http://www.crs.hr/rules-imo-and-eu-regulations/crs-rules-and-standards/rules-for-the-classification-of-ships>

CRS Rules are continually revised and updated in order to timely include internationally accepted standards (IACS Procedural requirements (PRs), Unified requirements (URs), Unified interpretations (UIs), IMO, ILO, EU, Flag state requirements, etc.) related to the safety of human life at sea and protection of the sea environment, as far as they concern classification.

CRS publishes and systematically maintains its rules related to design, construction, and maintenance of various types of vessels and their associated essential engineering systems related to:

- Structural strength, and where necessary watertight integrity of all essential parts of the hull and its appendages.
- Safety and reliability of the propulsion and steering system and those features and auxiliary systems for establishing and maintaining basic conditions on board.
- Stability.
- Subdivision
- Fire protection.
- Refrigerating plant.

A full list of CRS Rules being in force on 1st January 2023 is attached.

An outline of amendments implemented in January 2023 edition of the Rules is attached.

RULES OF CROATIAN REGISTER OF SHIPPING, January 2023
PRAVILA HRVATSKOG REGISTRA BRODOVA, siječanj 2023.

RULES FOR THE CLASSIFICATION OF SHIPS
PRAVILA ZA KLASIFIKACIJU BRODOVA

Edition - Izdanje

PART 1	GENERAL REQUIREMENTS OPĆI PROPISI	January 2023 - new
Chapter 1	General information Općenito	January 2023 - new
Chapter 2	Survey during construction and initial survey Nadzor nad gradnjom i osnovni pregled	January 2023 - new
Chapter 3	Type approval of products Tipno odobrenje proizvoda	January 2023 - new
Chapter 4	Approval of manufacturers and service suppliers Odobrenje proizvođača i uslužnih tvrtki	January 2023 - new
Chapter 5	Surveys of ships in service Pregledi postojećih brodova	January 2023 - new
Chapter 6	Requirements for additional class notations Zahtjevi za dodatne oznake klase	January 2023 - new
PART 2	HULL TRUP	July 2020
	<i>HULL - Amendments No. 1</i> <i>TRUP - Izmjene i dopune broj 1</i>	July 2021
	<i>HULL - Amendments No. 2</i> <i>TRUP - Izmjene i dopune broj 2</i>	January 2022
	<i>HULL - Amendments No. 3</i> <i>TRUP - Izmjene i dopune broj 3</i>	July 2022
	<i>HULL - Amendments No. 4</i> <i>TRUP - Izmjene i dopune broj 4</i>	January 2023 - new
PART 3	HULL EQUIPMENT OPREMA TRUPA	July 2020
	<i>HULL EQUIPMENT - Amendments No. 1</i> <i>OPREMA TRUPA - Izmjene i dopune broj 1</i>	January 2021
	<i>HULL EQUIPMENT - Amendments No. 2</i> <i>OPREMA TRUPA - Izmjene i dopune broj 2</i>	January 2022
	<i>HULL EQUIPMENT - Amendments No. 3</i> <i>OPREMA TRUPA - Izmjene i dopune broj 3</i>	July 2022
PART 4	STABILITY STABILITET	January 2020
	<i>STABILITY - Amendments No. 1</i> <i>STABILITET - Izmjene i dopune broj 1</i>	July 2021
	<i>STABILITY - Amendments No. 2</i> <i>STABILITET - Izmjene i dopune broj 2</i>	January 2022
	<i>STABILITY - Amendments No. 3</i> <i>STABILITET - Izmjene i dopune broj 3</i>	July 2022
	<i>STABILITY - Amendments No. 4</i> <i>STABILITET - Izmjene i dopune broj 4</i>	January 2023 - new
PART 5	SUBDIVISION PREGRAĐIVANJE	January 2020
	<i>SUBDIVISION - Amendments No. 1</i> <i>PREGRAĐIVANJE - Izmjene i dopune broj 1</i>	January 2022
	<i>SUBDIVISION - Amendments No. 2</i> <i>PREGRAĐIVANJE - Izmjene i dopune broj 2</i>	July 2022

RULES FOR THE CLASSIFICATION OF SHIPS
PRAVILA ZA KLASIFIKACIJU BRODOVA

Edition - Izdanje

PART 7	MACHINERY INSTALLATION STROJNI UREĐAJ	January 2020
	<i>MACHINERY INSTALLATION - Amendments No. 1</i> STROJNI UREĐAJ - Izmjene i dopune broj 1	January 2021
	<i>MACHINERY INSTALLATION - Amendments No. 2</i> STROJNI UREĐAJ - Izmjene i dopune broj 2	July 2022
PART 8	PIPING CJEVOVODI	January 2021
	<i>PIPING - Amendments No. 1</i> CJEVOVODI - Izmjene i dopune broj 1	January 2022
	<i>PIPING - Amendments No. 2</i> CJEVOVODI - Izmjene i dopune broj 2	July 2022
	<i>PIPING - Amendments No. 3</i> CJEVOVODI - Izmjene i dopune broj 3	January 2023 - new
PART 9	MACHINES STROJEVI	July 2022
	<i>MACHINES - Amendments No. 1</i> STROJEVI - Izmjene i dopune broj 1	January 2023 - new
PART 10	BOILERS, HEAT EXCHANGERS AND PRESSURE VESSELS KOTLOVI, IZMJENJIVAČI TOPLINE I POSUDE POD TLAKOM	July 2009
	<i>BOILERS, HEAT EXCHANGERS AND PRESSURE VESSELS - Amendments No. 1</i> KOTLOVI, IZMJENJIVAČI TOPLINE I POSUDE POD TLAKOM - Izmjene i dopune broj 1	July 2016
PART 11	REFRIGERATING PLANT RASHLADNI UREĐAJ	July 2009
PART 12	ELECTRICAL EQUIPMENT ELEKTRIČNA OPREMA	January 2020
	<i>ELECTRICAL EQUIPMENT - Amendments No. 1</i> ELEKTRIČNA OPREMA - Izmjene i dopune broj 1	January 2021
	<i>ELECTRICAL EQUIPMENT - Amendments No. 2</i> ELEKTRIČNA OPREMA - Izmjene i dopune broj 2	January 2022
	<i>ELECTRICAL EQUIPMENT - Amendments No. 3</i> ELEKTRIČNA OPREMA - Izmjene i dopune broj 3	July 2022
	<i>ELECTRICAL EQUIPMENT - Amendments No. 4</i> ELEKTRIČNA OPREMA - Izmjene i dopune broj 4	January 2023 - new
PART 13	AUTOMATION AUTOMATIZACIJA	January 2020
	<i>AUTOMATION - Corrigenda</i> AUTOMATIZACIJA - Ispravak	January 2023 - new
PART 17	FIRE PROTECTION PROTUPOŽARNA ZAŠTITA	January 2022
	<i>FIRE PROTECTION - Amendments No. 1</i> PROTUPOŽARNA OPREMA - Izmjene i dopune broj 1	July 2022
	<i>FIRE PROTECTION - Amendments No. 2</i> PROTUPOŽARNA OPREMA - Izmjene i dopune broj 2	January 2023 - new
PART 24	NON-METALLIC MATERIALS NEMETALNI MATERIJALI	July 2017
	<i>NON-METALLIC MATERIALS - Corrigenda</i> NEMETALNI MATERIJALI - Ispravak	July 2022
PART 25	METALLIC MATERIALS METALNI MATERIJALI	July 2021
	<i>METALLIC MATERIALS - Amendments No. 1</i> METALNI MATERIJALI - Izmjene i dopune broj 1	January 2022
	<i>METALLIC MATERIALS - Amendments No. 2</i> METALNI MATERIJALI - Izmjene i dopune broj 2	January 2023 - new

RULES FOR THE CLASSIFICATION OF SHIPS
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Edition - Izdanje

PART 26	WELDING	July 2021
	ZAVARIVANJE	January 2022
	<i>WELDING - Amendments No. 1</i>	
	ZAVARIVANJE - Izmjene i dopune broj 1	July 2022
	<i>WELDING - Corrigenda</i>	
	ZAVARIVANJE - Ispravak	
	<i>WELDING - Amendments No. 2</i>	
	ZAVARIVANJE - Izmjene i dopune broj 2	January 2023 - new
PART 27	CHEMICAL TANKERS	January 2021
	TANKERI ZA KEMIČALIJE	July 2022
	<i>CHEMICAL TANKERS - Corrigenda</i>	
	TANKERI ZA KEMIČALIJE - Ispravak	
	<i>CHEMICAL TANKERS - Amendments No. 1</i>	
	TANKERI ZA KEMIČALIJE - Izmjene i dopune broj 1	January 2023 - new
PART 28	HIGH-SPEED CRAFT	January 2020
	BRZI BRODOVI	July 2022
	<i>HIGH-SPEED CRAFT - Amendments No. 1</i>	
	BRZI BRODOVI - Izmjene i dopune broj 1	
	<i>HIGH-SPEED CRAFT - Amendments No. 2</i>	
	BRZI BRODOVI - Izmjene i dopune broj 2	January 2023 - new
PART 29	POLAR CLASS SHIPS AND ICE CLASS SHIPS	January 2019
	BRODOVI S POLARNOM KLASOM I BRODOVI S KLASOM ZA LED	January 2021
	<i>POLAR CLASS SHIPS AND ICE CLASS SHIPS - Amendments No. 1</i>	
	BRODOVI S POLARNOM KLASOM I BRODOVI S KLASOM ZA LED - Izmjene i dopune broj 1	January 2022
	<i>POLAR CLASS SHIPS AND ICE CLASS SHIPS - Amendments No. 2</i>	
	BRODOVI S POLARNOM KLASOM I BRODOVI S KLASOM ZA LED - Izmjene i dopune broj 2	
PART 33	SHIPS USING GASES OR OTHER LOW-FLASHING FUEL	July 2022
	BRODOVI KOJI UPOTREBLJAVAJU PLINOVITA GORIVA ILI DRUGE VRSTE GORIVA NISKE TOČKE PLAMIŠTA	
	<i>SHIPS USING GASES OR OTHER LOW-FLASHING FUEL - Amendments No. 1</i>	
	BRODOVI KOJI UPOTREBLJAVAJU PLINOVITA GORIVA ILI DRUGE VRSTE GORIVA NISKE TOČKE PLAMIŠTA - Izmjene i dopune broj 1	January 2023 - new
PART 34	RULES FOR THE CLASSIFICATION OF VESSELS OF LESS THAN 24 METERS IN LENGTH	July 2021
	PRAVILA ZA KLASIFIKACIJU PLOVILA DULJINE MANJE OD 24 METRA	
PART 35	YACHTS	January 2022
	JAHTE	
	COMMON STRUCTURAL RULES FOR BULK CARRIERS AND OIL TANKERS, January 2022	entry in force July 2022
	Common Structural Rules for Bulk Carriers and Oil Tankers, Rule Change Notice (RCN) 1 to January 2022 edition	entry into force July 2023

RULES FOR TECHNICAL SUPERVISION OF SEA-GOING SHIPS
PRAVILA ZA TEHNIČKI NADZOR POMORSKIH BRODOVA

Edition - Izdanje

PART 19	CARGO HANDLING GEAR AND LIFTING APPLIANCES	January 2011
	UREĐAJ ZA RUKOVANJE TERETOM I NAPRAVE ZA DIZANJE	
PART 20	PROTECTION AT WORK AND CREW ACCOMMODATION	January 2015
	ZAŠTITA PRI RADU I SMJEŠTAJ POSADE	
	<i>PROTECTION AT WORK AND CREW ACCOMMODATION - Amendments No. 1</i>	
	ZAŠTITA PRI RADU I SMJEŠTAJ POSADE - Izmjene i dopune broj 1	January 2023 - new

RULES FOR TECHNICAL SUPERVISION OF SEA-GOING SHIPS
PRAVILA ZA TEHNIČKI NADZOR POMORSKIH BRODOVA

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PART 22	POLLUTION PREVENTION SPREČAVANJE ONEČIŠĆENJA <i>POLLUTION PREVENTION - Amendments No. 1</i> SPREČAVANJE ONEČIŠĆENJA - Izmjene i dopune broj 1 <i>POLLUTION PREVENTION - Amendments No. 2</i> SPREČAVANJE ONEČIŠĆENJA - Izmjene i dopune broj 2	January 2022
		June 2022
		November 2022
PART 29	POLAR CLASS SHIPS AND ICE CLASS SHIPS BRODOVI S POLARNOM KLASOM I BRODOVI S KLASOM ZA LED	January 2018
PART 32	SHIP RECYCLING RECIKLIRANJE BRODOVA <i>SHIP RECYCLING - Amendments No. 1</i> RECIKLIRANJE BRODOVA - Izmjene i dopune broj 1	October 2018
		January 2023 - new
	PRAVILA ZA STATUTARNU CERTIFIKACIJU RIBARSKIH BRODOVA *)	srpanj 2012.
	PRAVILA ZA TEHNIČKI NADZOR BRODOVA OD DRVA, ALUMINIJSKIH SLITINA I PLASTIČNIH MATERIJALA *)	siječanj 2013.

TECHNICAL GUIDELINES
TEHNIČKE SMJERNICE

Edition - Izdanje

	GUIDELINES FOR THE CLASSIFICATION OF FLOATING DOCKS SMJERNICE ZA KLASIFIKACIJU PLUTAJUĆIH DOKOVA	November 2021
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POTVRĐIVANJE SUSTAVA UPRAVLJANJA KVALITETOM

Edition - Izdanje

	POTVRĐIVANJE SUSTAVA UPRAVLJANJA KVALITETOM *)	srpanj 2012.
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RULES FOR THE CLASSIFICATION OF INLAND NAVIGATION VESSELS
PRAVILA ZA KLASIFIKACIJU BRODOVA UNUTARNJE PLOVIDBE

Edition - Izdanje

PART 1	CLASSIFICATION AND SURVEYS	July 2021
PART 2	HULL AND HULL EQUIPMENT	July 2021
PART 3	MACHINERY, SYSTEMS AND ELECTRICITY	July 2021
PART 4	ADDITIONAL REQUIREMENTS FOR NOTATIONS	July 2021

HRVATSKI REGISTAR BRODOVA (CROATIAN REGISTER OF SHIPPING)
21000 SPLIT ● Marasovića 67 ● POB 187
HRVATSKA (CROATIA)
☎ + 385 (0)21 408 160 ● 📠 + 385 (0)21 358 159 ● e-mail: tech.coord@crs.hr

*) Dostupno samo na hrvatskom jeziku – Available only in Croatian

RULES UPDATING
RULES FOR THE CLASSIFICATION OF SHIPS, JANUARY 2023
OUTLINE OF THE MAIN CHANGES

Amended Rules

Rules for the classification of ships, Part 1 - General information, Chapter 2 – Survey during construction and initial survey

Type of amendments

Rules published as consolidated edition

Date of coming into force

1 January 2023

Basis for rules update

IACS UR Z23 (Rev. 7, corr. 1, Oct 2022) – Hull Survey for New Construction

Description of the main changes within the Rules

Minor amendment throughout the text related to corrected reference to IACS UR Z23

Technical background of amendments

Shipyard review record has been amended with a correct reference to ISO 45001

Effective Date and Application

Requirements of amended items are applicable for Shipyard Review Records completed on or after 1 January 2023

RULES UPDATING
RULES FOR THE CLASSIFICATION OF SHIPS, JANUARY 2023
OUTLINE OF THE MAIN CHANGES

Amended Rules

Rules for the classification of ships, Part 1 - General information, Chapter 5 – Ships in service

Type of amendments

Rules published as consolidated edition

Date of coming into force

1 January 2023

Basis for rules update

IACS UR Z1 (rev. 9, Aug 2021) – Annual and intermediate classification survey coverage of IMO Resolution A.1156(32)

IACS UR Z10.3 (rev. 20, May 2022) – Hull Surveys of Chemical Tankers

IACS UR Z10.4 (rev. 20, May 2022) – Hull Surveys of Double Hull Oil Tankers

IACS UR Z29 (Mar 2022) – Remote Classification Surveys

IACS PR 41 (May 2022) – Reporting on existence of asbestos on board

IMO MSC.483(103) – Amendments to 2011 ESP Code

Description of the main changes within the Rules

Minor amendments throughout the text based on revision of IACS UR Z1

Minor amendments throughout the text based on revision of IACS UR Z10.3

Minor amendments throughout the text based on revision of IACS UR Z10.4

Minor amendments throughout the text based on revision of 2011 ESP Code - IMO MSC.483(103)

Amendments in Head 3.29 due to introduction of IACS UR Z29

Inclusion of the requirements of IACS PR 41 (requirements for the Annual survey, Intermediate survey and the Renewal survey have been amended)

Technical background of amendments

By coming into force of IMO A.1156(32), A.1140(31) has been revoked and which has been reflected by IACS through new revisions of UR Z1.

IMO resolution A.1049(27) (2011 ESP Code) established the specific standards to be applied to the Enhanced Survey Programmes (ESP) for bulk carriers and oil tankers under SOLAS Regulation XI-1/2. Amendments to 2011 ESP Code were introduced by IMO MSC.483(103) requiring that thickness measurements at the first Renewal survey is no longer needed. In response, IACS amended its URs (UR Z10.3 (Rev. 20) and Z10.4 (Rev. 17)) incorporating such requirements of the ESP Code.

IACS established uniform requirements for remote surveys by introducing UR Z29 requiring that a remote survey, by using Information and Communication Technology (ICT), will only be appropriate provided the level of assurance is not compromised, and the survey is carried out with the same effectiveness as and is equivalent to, a survey carried out with attendance on board by a Surveyor. Remote survey will only be appropriate provided the level of assurance is not compromised, and the survey is carried out with the same effectiveness as and is equivalent to, a survey carried out with attendance on board by a surveyor.

The purpose of IACS PR 41 is to ensure that the Organisation responsible for the issue of the Passenger Ship Safety Certification (PSSC), Cargo Ship Safety Construction (SAFCON) Certification or Cargo Ship Safety Certification (CSSC) of the ship and the flag Administration, as appropriate, are notified when the existence of asbestos on board is identified by another Class Society who carries out a survey or audit onboard, for example IHM, ISM or MLC.

Effective Date and Application

Requirements of amended items are applicable to surveys to be commenced on or after 1 January 2023

RULES UPDATING
RULES FOR THE CLASSIFICATION OF SHIPS, JANUARY 2023
OUTLINE OF THE MAIN CHANGES

Amended Rules

Rules for the classification of ships, Part 2 - Hull

Type of amendments

Rules published as Amendments No. 4 to July 2020 edition

Date of coming into force

1 January 2023

Basis for rules update

IACS UR Z10.4 (rev. 20, May 2022) – Hull Surveys of Double Hull Oil Tankers

Description of the main changes within the Rules

Minor terminology related amendments deriving from IACS UR Z10.4 (in Head 17.2 related to bulk carriers and in Head 18.1 related to oil tankers).

Technical background of amendments

Apart from the amendments to survey requirements already outlined for the Rules for the classification of ships, Part 1 - General information, Chapter 5 – Ships in service, some minor editorial changes have been made (definition of Ballast tanks and the full and correct definition of the term “IACS Common Structural Rules”).

IACS periodically makes Rule Changes or Corrigenda as a part of the maintenance of its CSR-BC&OT. Consequently, in addition to the requirements related hull structure contained in the subject Rules, Rule change proposal No. 1 containing amendments to certain parts of IACS Common Structural Rules for Bulk Carriers and Oil Tankers (CSR-BC&OT), edition 1 January 2022 have been published and are coming into force on 1 July 2023.

Effective Date and Application

Not applicable

RULES UPDATING
RULES FOR THE CLASSIFICATION OF SHIPS, JANUARY 2023
OUTLINE OF THE MAIN CHANGES

Amended Rules

Rules for the classification of ships, Part 4 - Stability

Type of amendments

Rules published as Amendments No. 4 to January 2020 edition

Date of coming into force

1 January 2023

Basis for rules update

IACS Rec. 60 (rev. 1, March 2021) – Intact stability of tankers during liquid transfer operations

IACS Rec. 60 (rev. 1, corr. 1, Nov. 2022) – Intact stability of tankers during liquid transfer operations

IACS UI SC 297 (Aug. 2022) – Amendment to stability/loading information in conjunction with the alterations of lightweight

IMO MSC.1/Circ.1362/Rev.1 - Unified interpretation regarding timber deck cargo in the context of damage stability requirements

IMO MSC.1/Circ.1653 - Unified interpretation of SOLAS Regulations II-1/5.4 and II-1/5.5, relating to the amendment to the stability/loading information in conjunction with the alterations of lightweight

Description of the main changes within the Rules

Reference to UI LL 61 deleted – UI withdrawn by IACS.

Reference to UI SC 155 deleted – UI withdrawn by IACS by coming into force of UI SC 297

Corrected reference to the application of IACS Rec. 60 and corrigenda 1 to IACS Rec. 60

SECTION 1 - GENERAL

Head 1.5 - New item 1.5.6 has been added in order to include requirements of IACS UI SC 297, Aug 2022

Head 1.7 - Item 1.7.2.3 has been amended in order to align with the requirements of IACS UI SC 297, Aug 2022

Head 1.7 - Item 1.7.2.9 has been added in order to include requirements of IACS UI SC 297, Aug 2022

SECTION 3 - ADDITIONAL REQUIREMENTS FOR STABILITY

Head 3.3 - Items in Head 3.3 have been appropriately amended in order to include requirements of IMO MSC.1/Circ.1653 - Unified interpretation regarding timber deck cargo in the context of damage stability requirements

Head 3.4 - Item 3.4.4.1 has been amended in order to include reference to IACS Rec. 60, Rev. 1, Corr.1, Nov. 2022

Technical background of amendments

IACS Rec. 60 for tankers (i.e. vessels designed to carry liquid in bulk), is developed from MSC/Circ.706 (MEPC/Circ.304) containing recommendations for existing oil tankers. The phenomenon of lolling is considered by IACS to be a safety issue for double hull tankers, as well as for other tankers having exceptionally wide cargo tanks (i.e. having cargo tank breadths greater than 60% of the vessel's maximum beam), which should be solved for every vulnerable tanker. The solutions should not be limited only to tankers subject to MARPOL.

IACS SC 297 is dealing with the amendment to stability/loading information in conjunction with the alterations of lightweight and is giving interpretation of SOLAS Ch. II-1, Regs. 5.4 and 5.5 (as amended by resolution MSC.421(98)) and of resolution MSC.429(98)/Rev.1 and Rev.2.

The Maritime Safety Committee, at its 105th session (20 to 29 April 2022), having noted that since the dissemination of IACS Unified interpretation regarding timber deck cargo in the context of damage stability requirements (MSC/Circ.998) by MSC 74 in July 2001, IACS had reviewed its Unified Interpretation UI SC161, taking into account the SOLAS amendments adopted since the issue of MSC/Circ.998, as well as

RULES UPDATING
RULES FOR THE CLASSIFICATION OF SHIPS, JANUARY 2023
OUTLINE OF THE MAIN CHANGES

the revocation of the 1991 Timber Code (resolution A.715(17)) by the Code of safe practice for ships carrying timber deck cargoes, 2011 (2011 TDC Code) (resolution A.1048(27)), and agreed to the updated Unified interpretation regarding timber deck cargo in the context of damage stability requirements, set out in the annex, as prepared by the Sub-Committee on Ship Design and Construction, at its eighth session (17 to 21 January 2022). This circular supersedes MSC/Circ.998.

IACS UI SC161 has been revised in order to take into account requirements of MSC.1/Circ.1653. As a result, IACS developed the draft UI SC161 (Rev.3) to clarify that such uprights are required to comply with the Code of Safe Practice for Ships Carrying Timber Deck Cargoes, 2011 (2011 TDC Code), and retracted UI SC162 (Rev.2) being developed before entry into force of MSC.1/Circ.1653.

Effective Date and Application

Requirements of amended items are applicable on or after 1 January 2023

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RULES FOR THE CLASSIFICATION OF SHIPS, JANUARY 2023
OUTLINE OF THE MAIN CHANGES

Amended Rules

Rules for the classification of ships, Part 8 - Piping

Type of amendments

Rules published as Amendments No. 3 to January 2021 edition

Date of coming into force

1 January 2023

Basis for rules update

IACS UR F15 (rev. 6, corr. 1, Feb. 2022) – Reinforced thickness of ballast and cargo oil piping
IACS UR M61 (rev. 1, Feb. 2022) – Starting Arrangements of Internal Combustion Engines

Description of the main changes within the Rules

Reference to IACS UR M45 deleted – UR withdrawn by IACS.

Corrected reference to the application of corrigenda 1 to corrigenda 1 to IACS F15.

SECTION 11 – COMPRESSED AIR SYSTEM

Head 11.1 - Items 11.1.3, 11.1.4 and 11.1.5 have been amended in order to align with IACS UR M61, Rev.1.

Technical background for amendments

The arrangement for air starting is to be such that the necessary air for the first charge can be produced on board without external aid. IACS UR M61 specifies the number of times that main engines are to be capable of being consecutively started as the total capacity of air reservoirs used for starting such engines. Furthermore, this number of starts refers to starting main engines under the cold and ready-to-start condition, without there being a need to charge air reservoirs with air during starting tests. IACS reviewed its requirements and determined that there is no significant difference in starting test results from testing in the warm condition and testing in the cold condition because ME typically tend to be warmed up before starting. Consequently, IACS agreed to delete requirement for additional number of starts may be required when the engine is in the warm running condition, which was introduced in the new revision of UR M61.

Effective Date and Application

Requirements of amended items are applicable for ships constructed on or after 1 January 2023

RULES UPDATING
RULES FOR THE CLASSIFICATION OF SHIPS, JANUARY 2023
OUTLINE OF THE MAIN CHANGES

Amended Rules

Rules for the classification of ships, Part 9 - Machines

Type of amendments

Rules published as Amendments No. 1 to July 2022 edition

Date of coming into force

1 January 2023

Basis for rules update

IACS UR M60 (rev. 1, Nov. 2021) – Control and Safety of Gas Turbines for Marine Propulsion Use

IACS UR M73 (rev. 1, March 2022) – Turbochargers

Description of the main changes within the Rules

SECTION 2 – INTERNAL COMBUSTION ENGINES

Head 2.20 - Existing item 2.20.1 has been amended to include requirements contained in IACS UR M73, Rev.1, Mar 2022

SECTION 8 – GAS TURBINES

Head 8.7 - Existing Head 8.7 has been amended to include requirements contained in IACS UR M60, Rev.1 Nov 2021

Head 8.9 - Existing Head 8.9 has been amended to include requirements contained in IACS UR M60, Rev.1 Nov 2021.

Technical background for amendments

IACS UR M60 provides requirements for the control and safety of gas turbines for marine propulsion use. By introducing UR M60 Rev. 1, IACS amended requirements for safety devices of gas turbines to allow their installation to be based on failure mode and effects analysis (FMEA). Requirements of IACS UR M44 Rev. 10, corr. 1 were already introduced in July 2022 Amendments to the Rules, giving corrected reference to submission of documents related to FMEA.

IACS UR M73 provides requirements for turbochargers with regard to design approval, type testing and certification and their matching on engines. Turbochargers are to be type approved, either separately or as a part of an engine. UR M73 Rev. 1 introduces separate requirements for the certification of new turbocharger type or and for a turbocharger type that has undergone substantive modifications in respect of the one previously type approved, or for renewal of an expired type approval certificate.

Effective Date and Application

Requirements related to IACS UR M60, Rev. 1 are applicable for ships constructed on or after 1 January 2023

Requirements related to IACS UR M73 Rev.1, except for M73.4, are to be implemented to turbochargers with the date of application for certification on or after 1 January 2023. Turbochargers with an existing type approval on 1 January 2023 are not required to be re-type approved in accordance with this UR until the current Type Approval reaches its expiry date.

The requirements of M73.4 Rev.1 are to be implemented to turbochargers with the date of application for certification of an individual turbocharger on or after 1 January 2023

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RULES FOR THE CLASSIFICATION OF SHIPS, JANUARY 2023
OUTLINE OF THE MAIN CHANGES

Amended Rules

Rules for the classification of ships, Part 12 – Electrical equipment

Type of amendments

Rules published as Amendments No. 4 to January 2020 edition

Date of coming into force

1 January 2023

Basis for rules update

IACS UR E13 (rev. 3, corr. 1, May 2022) – Test requirements for Rotating Machines

IACS UR E21 (rev. 1, corr. 1, June 2022) – Requirements for uninterruptible power system (UPS) units as alternative and/or transitional power

Description of the main changes within the Rules

Corrected reference to the application of corrigenda 1 to IACS E13.

Corrected reference to the application of corrigenda 1 to IACS E21.

Technical background of the amendments

IACS UR E13 provides test requirements for rotating machines, requiring that manufacturer's test records are to be provided for machines for essential services, for other machines they are to be available upon request, with all tests to be carried out according to IEC 60092-301:1980/AMD2:1995. All machines of 100 kW and over, intended for essential services, are to be surveyed by the Society during test and, if appropriate, during manufacturing. Corr. 1 of UR E13 contains only minor corrections within text.

IACS UR E21 provides requirements for uninterruptible power system (UPS) units as alternative and/or transitional power. Corr. 1 of UR E21 contains corrected references to SOLAS regulations and minor corrections within text.

Effective Date and Application

Not applicable

RULES UPDATING
RULES FOR THE CLASSIFICATION OF SHIPS, JANUARY 2023
OUTLINE OF THE MAIN CHANGES

Amended Rules

Rules for the classification of ships, Part 17 – Fire protection

Type of amendments

Rules published as Amendments No. 2 to January 2022 edition

Date of coming into force

1 January 2023

Basis for rules update

IACS UI FTP 5 (corr. 1, Sep. 2022) – Testing and approval of “A” class divisions – fastening of insulation material and details of joints

IACS UI SC 169 (rev. 1, Sep. 2022) – Foam systems positions of aft monitors

IACS UI SC 198 (corr. 1, Sep 2022) – Sections in local application fire extinguishing systems (Reg.II-2/10.5.6.3)

IACS UI SC 217 (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)

IACS UI SC 218 (rev. 1, July 2022) - Fire Testing of Equivalent Water-Based Fire Extinguishing Systems

IACS UI SC 219 (rev. 1, July 2022) - Fire Testing of Equivalent Water-Based Fire Extinguishing Systems (IMO MSC/Circ.1165, Appendix B, 4.5.4.1)

IACS UI SC 250 (corr. 2, Nov. 2022) - Fire-Extinguishing Arrangements in Cargo Spaces (IMSBC Code, as amended)

IMO MSC.1/Circ.1387/Corr.1 - Revised guidelines for the approval of fixed water-based local application fire-fighting systems for use in category a machinery spaces (MSC/Circ.913), Corrigendum

IMO MSC.1/Circ.1395/Rev.5 - Lists of solid bulk cargoes for which a fixed gas fire-extinguishing system may be exempted or for which a fixed gas fire-extinguishing system is ineffective

Description of the main changes within the Rules

Reference to UI SC 32 deleted - UI withdrawn by IACS.

Reference to UI SC 60 deleted - UI withdrawn by IACS.

Reference to UI FTP 2 deleted - UI withdrawn by IACS.

SECTION 3 - DEFINITIONS AND EXPLANATIONS

Head 3.1 - Item 3.1.2.23 has been amended with references to IACS UI FTP 2 deleted; and to IACS UI FTP5 Corr.1

SECTION 10 – FIRE FIGHTING

Head 10.5 - Item 10.5.6.2 has been amended with references to MSC.1/Circ.1387/Corr.1 and to IACS UI SC 217/Corr.2

Head 10.5 - Item 10.5.6.3 has been amended with reference to IACS UI SC 198 Corr.1

Head 10.7 - Item 10.7.1.3 has been amended with reference to IACS UI SC 250/Corr.2

Head 10.7- Item 10.7.1.4 has been amended with reference to MSC.1/Circ.1395/Rev.5

Head 10.7 - Item 10.7.2 has been amended with reference to IACS UI SC 250/Corr.2

Head 10.8 - Text within Head 10.8 has been amended with reference to IACS UI SC 169 Rev.1

SECTION 24 – FIRE SAFETY SYSTEMS

Head 24.6 - Item 24.6.1 reference to IACS UI SC 32 Rev.2 has been deleted

Head 24.7 - Item 24.7.2.2 has been amended with reference to IACS UI SC 219 Rev.1

Head 24.14 - Item 24.14.2.2.2.1 reference to IACS UI SC 60 Rev.1 has been deleted

Head 24.14 - Item 24.14.2.3.2.3 has been amended with reference to IACS UI SC 169 Rev.1

Head 24.21- Item 24.21.2 has been amended with reference to MSC/Circ. 1387/Corr.1

ANNEX 4 - MATERIALS USED IN ACCOMMODATION SPACES MSC/Circ.1120

RULES UPDATING
RULES FOR THE CLASSIFICATION OF SHIPS, JANUARY 2023
OUTLINE OF THE MAIN CHANGES

Annex has been amended to include requirements of MSC.1/Circ. 1395/Rev.5

ANNEX 5

Note No. 14 to Table 1-1 has been amended with reference to IACS UI SC 219 Rev.1

Technical background of amendments

IACS UI FTP 5 provides requirements for testing and approval of “A” class divisions – fastening of insulation material and details of joints. Corr. 1 of FTP 5 provides corrected reference to IMO Res. A.754(18) and FTP Code.

IACS UI SC 169 provides requirements for foam systems positions of aft monitors. Correct reference to SOLAS and FSS code introduced, along with the interpretation that the port and starboard monitors may be located in the cargo area above oil bunker tanks adjacent to cargo tanks if capable of protecting the deck below and aft of each other.

IACS UI SC 198 provides requirements for sections in local application fire extinguishing systems (Reg.II-2/10.5.6.3).

Corr. 1 of SC 198 provides correct reference to SOLAS and MSC.338(91).

IACS UI SC 217 provides requirements for nozzles installation for fixed water based local application fire-fighting systems for use in category A machinery spaces (MSC/Circ.913).

SC 217 was originally developed to interpret IMO MSC/Circ.913 which is superseded by MSC.1/Circ.1387. Corr. 2 of SC 217 introduces requirements allowed under paragraph 4 of MSC.1/Circ.1387, fire and component tests previously conducted in accordance with MSC/Circ.913 remain valid for the approval of new systems. Existing fixed water-based local application fire-fighting systems approved and installed based on MSC/Circ.913 should be permitted to remain in service as long as they are serviceable.

IACS UI SC 218 provides requirements for fire testing of equivalent water-based fire extinguishing systems. Rev. 1 of SC 218 provides corrected interpretation of IMO MSC/Circ.1165, Appendix B, 4.5.1, as amended by MSC.1/Circ.1237 and MSC.1/1269.

IACS UI SC 219 provides requirements for fire testing of equivalent water-based fire extinguishing systems (IMO MSC/Circ.1165, Appendix B, 4.5.4.1).

Rev. 1 of SC 219 provides corrected interpretation of IMO MSC/Circ.1165, Appendix B, 4.5.4.1, as amended by MSC.1/Circ.1237 and MSC.1/Circ.1269.

IACS UI SC 250 provides requirements for fire-extinguishing arrangements in cargo spaces (IMSBC Code, as amended).

Corr. 1 of SC 250 provides corrected reference to IMSBC Code, as amended by MSC.462(101)

IMO MSC.1/Circ.1387/Corr.1 - Revised guidelines for the approval of fixed water-based local application fire-fighting systems for use in category a machinery spaces (MSC/Circ.913).

IMO MSC.1/Circ.1395/Rev.5 - Lists of solid bulk cargoes for which a fixed gas fire-extinguishing system may be exempted or for which a fixed gas fire-extinguishing system is ineffective

Effective Date and Application

Requirements of amended items are applicable on or after 1 January 2023.

RULES UPDATING
RULES FOR THE CLASSIFICATION OF SHIPS, JANUARY 2023
OUTLINE OF THE MAIN CHANGES

Amended Rules

Rules for the classification of ships, Part 25 – Metallic materials

Type of amendments

Rules published as Amendments No. 1 to July 2021 edition

Date of coming into force

1 January 2023

Basis for rules update

IACS UR W2 (rev. 3, Sep. 2021) – Test specimens and mechanical testing procedures for materials

IACS UR W13 (rev. 7, Sep. 2021) – Thickness tolerances of steel plates and wide flats

IACS UR W14 (rev. 3, Sep. 2021) – Steel plates and wide flats with specified minimum through thickness properties ("Z" quality)

IACS UR W18 (rev. 6, Sep. 2021) – Anchor chain cables and accessories including chafing chain for emergency towing arrangements

IACS UR W25 (rev. 6, Sep. 2021) – Aluminium Alloys for Hull Construction and Marine Structure

Description of the main changes within the Rules

SECTION 2 - TEST SPECIMENS AND MECHANICAL TESTING PROCEDURES FOR MATERIALS

Head 2.3 - Item 2.3.1 is partly changed to align with UR W2, Rev.3, Sep 2021

Head 2.4 - Items 2.4.2.1 and 2.4.2.10 are partly changed to align with UR W2, Rev.3, Sep 2021

Head 2.5 - Item 2.5.4 is partly changed to align with UR W2, Rev.3, Sep 2021

Head 2.7 - Items 2.7.3 and 2.7.4 are partly changed to align with UR W2, Rev.3, Sep 2021

Head 2.8 - Items 2.8.1, 2.8.2, 2.8.3, 2.8.4 and 2.8.5 are partly changed to align with UR W2, Rev.3, Sep 2021

SECTION 3 - STEEL AND IRON MATERIALS

Head 3.2.9 - Item 3.2.9.1 is partly changed to align with UR W13, Rev.7, Sep 2021

Head 3.9 - Item 3.9.5 is partly changed to align with UR W14, Rev.3, Sep 2021

SECTION 5 - ALUMINIUM ALLOYS

Head 5.1 - Items 5.1.1.4 and 5.1.8.5 are partly changed to align with UR W25, Rev.6, Sep 2021

SECTION 7 - ANCHOR CHAIN CABLES AND ACCESSORIES

Head 7.3 - Items 7.3.1 and 7.3.2 are partly changed to align with UR W18, Rev.6, Sep 2021

Technical background of amendments

In URs and recommendations related to materials and welding, the year of establishment/revision was not given for some of the referenced standards. For this reason IACS has reviewed and amended UR W2, UR W13, UR W14, UR W18 and UR W25.

Effective Date and Application

Requirements of amended items are applicable on ships contracted for construction on or after 1 January 2023, and/or when the application for certification is placed on or after 1 January 2023, and/or when the application for certification of manufacturer approval is dated on or after 1 January 2023.

RULES UPDATING
RULES FOR THE CLASSIFICATION OF SHIPS, JANUARY 2023
OUTLINE OF THE MAIN CHANGES

Rules to be updated

Rules for the classification of ships, Part 26 – Welding

Type of amendments

Rules published as Amendments No. 2 to July 2012 edition

Date of coming into force

1 January 2023

Basis for rules update

IACS UR W17 (rev. 6, Sep. 2021) – Approval of consumables for welding normal and higher strength hull structural steels

IACS UR W26 (rev. 6, Sep. 2021) – Requirements for Welding Consumables for Aluminium Alloys

Description of the main changes within the Rules

SECTION 1 - GENERAL REQUIREMENTS, PROOF OF QUALIFICATIONS, APPROVALS

Head 1.5 - Sub-item 1.5.2.4.5.2 is partly changed to align with UR W17, Rev.6, Sep 2021

Head 1.5 - Sub-item 1.5.4.1.1.2 is partly changed to align with UR W26, Rev.2, Sep 2021

Technical background of amendments

In URs and recommendations related to materials and welding, the year of establishment/revision was not given for some of the referenced standards. For this reason IACS has reviewed and amended UR W17 and UR W26.

Effective Date and Application

Requirements of amended items are applicable when an application for approval is dated on or after 1 January 2023.

RULES UPDATING
RULES FOR THE CLASSIFICATION OF SHIPS, JANUARY 2023
OUTLINE OF THE MAIN CHANGES

Rules to be updated

Rules for the classification of ships, Part 27 – Chemical tankers

Type of amendments

Rules published as Amendments No. 1 to January 2021 edition

Date of coming into force

1 January 2023

Basis for rules update

IACS UI CC 6 (rev. 1, Aug. 2022) – Lining approved for use with acids – IBC Code item 15.11.2

Description of the main changes within the Rules

SECTION 1 - GENERAL

Head 1.1 - Item 1.1.4 is amended to include reference to MSC.62(67)/Rev.1

SECTION 3 - SHIP ARRANGEMENTS

Head 3.2 - Item 3.2.12 is amended to include reference to IACS UI SC 201, Rev.1/Corr.1

SECTION 15- SPECIAL REQUIREMENTS

Head 15.11 - Item 15.11.2 is amended to include reference to IACS UI CC 6, Rev.1

Technical background of amendments

CC6 provides requirements lining approved for use with acids – IBC Code item 15.11.2.

Rev. 1 of CC6 provides amended interpretation of the Lining, also requiring that the elasticity of a lining is to be not less than the supporting boundary plating is to prevent debonding at the interface between the lining and the lined surface.

Effective Date and Application

Requirements of amended items are applicable on ships contracted for construction on or after 1 January 2023.

RULES UPDATING
RULES FOR THE CLASSIFICATION OF SHIPS, JANUARY 2023
OUTLINE OF THE MAIN CHANGES

Rules to be updated

Rules for the classification of ships, Part 28 – High speed craft

Type of amendments

Rules published as Amendments No. 2 to January 2020 edition

Date of coming into force

1 January 2023

Basis for rules update

IACS HSC 8 (corr. 1, Sep. 2022) – Protection of load bearing structures

Description of the main changes within the Rules

Reference to UI HSC 2 deleted - UI withdrawn by IACS.

Reference to UI HSC 3 deleted - UI withdrawn by IACS.

Reference to UI HSC 4 deleted - UI withdrawn by IACS.

SECTION 7 – FIRE SAFETY

Sub-item 7.4.2.3.4 Additional text referring to the IMO circular was added at the end of the item 7.4.2.3.4 in accordance with IACS UI HSC 8 (Corr.1, Sep.2022)

Technical background

IACS reviewed the contents of UI HSC 2, UI HSC 3 and UI HSC 4 and concluded that the requirements contained in said UIs are already included in the HSC Code by IMO. Hence IACS has decided to delete UI HSC 2, UI HSC 3, and UI HSC 4.

Corr. 1 of UI HSC 8 provided corrected reference to 2000 HSC Code, as well as corrected reference to paras. 6 to 11 of MSC.1/Circ.1457.

Effective Date and Application

Requirements of amended items are applicable on or after 1 January 2023.

RULES UPDATING
RULES FOR THE CLASSIFICATION OF SHIPS, JANUARY 2023
OUTLINE OF THE MAIN CHANGES

Rules to be updated

Rules for the classification of ships, Part 33 – Ships using gases or other low-flashing fuel

Type of amendments

Rules published as Amendments No. 1 to July 2022 edition

Date of coming into force

1 January 2023

Basis for rules update

IMO MSC.1/Circ.1647 - Interim guidelines for the safety of ships using fuel cell power installations

Description of the main changes within the Rules

PART A, 2 - GENERAL

Head 2.1 - Text has been amended with reference to use of fuel cells under provisions of IMO MSC.1/Circ.1647 - Interim guidelines for the safety of ships using fuel cell power installations

Technical background

MSC.1/Circ.1647 Interim Guidelines have been developed to provide international standard provisions for ships using fuel cell power installations. The goal of these Interim Guidelines is to provide criteria for the arrangement and installation of fuel cell power installations with at least the same level of safety and reliability as new and comparable conventional oil-fuelled main and auxiliary machinery installations, regardless of the specific fuel cell type and fuel. Depending on the fuel used, other regulations (e.g. IGF Code, part A) and provisions (e.g. Interim guidelines for the safety of ships using methyl/ethyl alcohol as fuel) are applicable in addition to these Interim Guidelines. Certain fuel cell power installations use a process of fuel reforming to develop a reformed fuel for use in the fuel cell. These Interim Guidelines are not intended to cover the storage of reformed fuels.

Unless expressly provided otherwise these Interim Guidelines apply to ships to which part G of SOLAS chapter II-1 applies.

The goal of these Interim Guidelines is to provide safe and reliable delivery of electrical and/or thermal energy through the use of fuel cell technology.

These Interim Guidelines are related to the goals and functional requirements of the IGF Code.

In particular, the following applies:

- .1 The safety, reliability and dependability of the systems should be equivalent to that achieved with new and comparable conventional oil-fuelled main and auxiliary machinery installations, regardless of the specific fuel cell type and fuel.
- .2 The probability and consequences of fuel-related hazards should be limited to a minimum through arrangement and system design, such as ventilation, detection, and safety actions. In the event of gas leakage or failure of the risk reducing measures, necessary safety actions should be initiated.
- .3 The design philosophy should ensure that risk reducing measures and safety actions for the fuel cell power installation do not lead to an unacceptable loss of power.
- .4 Hazardous areas should be restricted, as far as practicable, to minimize the potential risks that might affect the safety of the ship, persons on board and equipment.
- .5 Equipment installed in hazardous areas should be minimized to that required for operational purposes and should be suitably and appropriately certified.
- .6 Fuel cell spaces should be configured to prevent any unintended accumulation of explosive, flammable or toxic gas concentrations.
- .7 System components should be protected against external damages.
- .8 Sources of ignition in hazardous areas should be minimized to reduce the probability of explosions.
- .9 Piping systems and overpressure relief arrangements that are of suitable design, construction and installation for their intended application should be provided.

RULES UPDATING
RULES FOR THE CLASSIFICATION OF SHIPS, JANUARY 2023
OUTLINE OF THE MAIN CHANGES

- .10 Machinery, systems and components should be designed, constructed, installed, operated, maintained, and protected to ensure safe and reliable operation.
- .11 Fuel cell spaces should be arranged and located such that a fire or explosion in either will not lead to an unacceptable loss of power or render equipment in other compartments inoperable.
- .12 Suitable control, alarm, monitoring and shutdown systems should be provided to ensure safe and reliable operation.
- .13 Fixed leakage detection suitable for all spaces and areas concerned should be arranged.
- .14 Fire detection, protection and extinction measures appropriate to the hazards concerned should be provided.
- .15 Commissioning, trials and maintenance of fuel systems and gas utilization machinery should satisfy the goal in terms of safety, availability, and reliability.
- .16 The technical documentation should permit an assessment of the compliance of the system and its components with the applicable rules, guidelines, design standards used and the principles related to safety, availability, maintainability and reliability.
- .17 A single failure in a technical system or component should not lead to an unsafe or unreliable situation.
- .18 Safe access should be provided for operation, inspection, and maintenance.

Effective Date and Application

Not applicable