

## Main changes in BV Rules for Steel Ships

The main changes in Bureau Veritas Rules for the Classification of Steel Ships January 2024 edition with respect to the previous edition (July 2023) are as follows.

### Rules history

January 2024 edition entry into force on January 1, 2024 Contents	Previous edition: July 2023 entry into force on July 1, 2023 Contents
<b>Part A - Classification and Surveys</b> [NR 467.A1 DT R21 E January 2024]	<b>Part A - Classification and Surveys</b> [NR 467.A1 DT R20 E July 2023]
<b>Part B - Hull and Stability</b> [NR 467.B1 DT R16 E January 2024]	<b>Part B - Hull and Stability</b> [NR 467.B1 DT R15 E July 2023]
<b>Part C - Machinery, Electricity, Automation and Fire Protection</b> [NR 467.C1 DT R16 E January 2024]	<b>Part C - Machinery, Electricity, Automation and Fire Protection</b> [NR 467.C1 DT R15 E July 2023]
<b>Part D - Service Notations</b> [NR 467.D1 DT R16 E January 2024]	<b>Part D - Service Notations</b> [NR 467.D1 DT R15 E July 2023]
<b>Part E - Service notations for Offshore Service Vessels and Tugs</b> [NR 467.E1 DT R07 E January 2024]	<b>Part E - Service notations for Offshore Service Vessels and Tugs</b> [NR 467.E1 DT R06 E July 2023]
<b>Part F - Additional Class Notations</b> [NR 467.F1 DT R16 E January 2024]	<b>Part F - Additional Class Notations</b> [NR 467.F1 DT R15 E July 2023]

## PART A – Classification and Surveys

### Additional Service Features

- New additional service features

Service feature	Description	Reference
<b>hydrogenfuel</b>	Introduction of the additional service feature <b>hydrogenfuel</b> for ships using hydrogen as fuel	Ch 1, Sec 2 Tab 1 & [4.16.4]
<b>Methanol bunkering</b>	Introduction of the additional service feature <b>Methanol bunkering</b> for chemical tankers designed for bunkering of methanol	Ch 1, Sec 2 Tab 1 & [4.4.4]
<b>WIND-PROPULSION-X</b>	Introduction of new additional service feature <b>WIND-PROPULSION-X</b> for ships other yachts equipped with wind propulsion systems (replacing the additional class notations <b>WPS1</b> and <b>WPS2</b> )	Ch 1, Sec 2 Tab 1 & [4.16.3]

### Additional Class Notations

- New additional class notations

Class notation	Description	Reference
<b>SYNC-COM (-R)</b>	Introduction of new additional class notation <b>SYNC-COM</b> for ships equipped with synchronous communication systems and complementary notation <b>-R</b> when these systems are redundant	Ch 1, Sec 2 Tab 5 & [6.5.6]
<b>HYDROGENFUEL-PREPARED</b>	Introduction of the additional class notation <b>HYDROGENFUEL-PREPARED</b>	Ch 1, Sec 2 Tab 5 & [6.25.12]

Class notation	Description	Reference
<b>OCC-PREPARED</b>	Introduction of the additional class notation <b>OCC-PREPARED</b> when specific arrangements are made to accommodate the future installation of onboard carbon capture system	Ch 1, Sec 2 Tab 5 & [6.8.14]
<b>HVSC-PREPARED</b>	Introduction of the additional class notation <b>HVSC-PREPARED</b> when specific arrangements are made to accommodate the future installation of high-voltage shore connection system	Ch 1, Sec 2 Tab 5 & [6.20.6]
<b>LASHING-RSSA( ) and -WAF</b>	Introduction of new additional class notation <b>LASHING-RSSA( )</b> covering assessment of lashing patterns of ships engaged in voyages on specific routes/specific areas Introduction of complementary notation <b>-WAF</b> for ships provided with weather dependant lashing procedures	Ch 1, Sec 2 Tab 5 & [6.16.6]
<b>WIND-PROPULSION-X</b>	Introduction of new additional class notation <b>WIND-PROPULSION-X</b> for yachts equipped with wind propulsion systems (replacing the additional class notations <b>WPS1</b> and <b>WPS2</b> )	Ch 1, Sec 2 [6.25.5]

Existing additional class notations

Class notation	Description	Reference
<b>SMART( )</b>	Introduction of notation <b>Lx</b> covering new smart functions related to electronic log books Introduction of group 3 for ships provided with Shore Digital Solution (SDS)	Ch 1, Sec 2 Tab 5 & [6.23.1]
<b>LNGFUEL-PREPARED</b>	Introduction of new notation <b>A</b> when specific arrangements are made for access and ventilation	Ch 1, Sec 2 Tab 5 & [6.25.9]
<b>LASHING-WW and LASHING (specific area)</b>	Deletion of the additional class notations <b>LASHING-WW</b> and <b>LASHING (specific area)</b> which are replaced by the additional class notation <b>LASHING-RSSA( )</b>	Ch 1, Sec 2 Tab 5 & [6.16.6]
<b>WPS1 &amp; WPS2</b>	Deletion of additional class notations <b>WPS1</b> and <b>WPS2</b> for ships equipped with wind propulsion systems (replaced by the notation <b>WIND-PROPULSION-X</b> )	Ch 1, Sec 2 Tab 5 & [6.25.5]

Other Changes

Topic	Description	Reference
Hydrogen as fuel	Introduction of in-service surveys requirements for ships assigned the additional service feature <b>hydrogenfuel</b>	Ch 4, Sec 1, Tab 1 Ch 4, Sec 9, [7]
Methanol bunkering ships	Introduction of in-service surveys requirements for chemical tankers assigned the additional service feature <b>Methanol bunkering</b>	Ch 4, Sec 4, [8]
LNG bunkering ships	Update of survey items for ships assigned the additional service feature <b>LNG bunkering</b>	Ch 4, Sec 5, [11]
Wind propulsion systems	Update of the in-service surveys requirements for ships assigned the notation <b>WIND-PROPULSION-X</b>	Ch 4, Sec 12
Ship-shore communication	Introduction of in-service surveys requirements for ships assigned the additional class notation <b>SYNC-COM</b>	Ch 5, Sec 1, Tab 1 Ch 5, Sec 5, [1.1.1] Ch 5, Sec 5, [2.5] Ch 5, Sec 5, [3.2]
Additional class notations <b>SMART(x3), SMART(Lx)</b>	Introduction of in-service surveys requirements for ships assigned the additional class notation <b>SMART(Lx)</b> and/or <b>SMART(x3)</b>	Ch 5, Sec 17, [3.1] Ch 5, Sec 17, [3.2] Ch 5, Sec 17, [3.3]

## PART B – Hull and Stability

### Chapter 4 – Structure Design Principles

#### Other Changes

Topic	Description	Reference
Geometrical properties of stiffeners	Implementation of CSR Rule Change Notice 1 to 01 JAN 2022 version	Sec 6 [1.4]

### Chapter 5 – Design Loads

#### Other Changes

Topic	Description	Reference
Wind loads	New definition of wind loads	Sec 5 [8]
Fork-lift loads	Clarification of loads related to fork-lift trucks	Sec 6, [7.1.4]
Dry bulk cargo load and loading conditions	Implementation of CSR Rule Change Notice 1 to 01 JAN 2022 version	Sec 6 Sec 8, [2.1.2]

### Chapter 11 – Other Structures

#### IACS IMO Requirements

IMO Ref.	IMO Rev.	IMO Title	Reference
IMO MSC.474 (102)	11 November 2020	AMENDMENTS TO THE INTERNATIONAL CONVENTION FOR THE SAFETY OF LIFE AT SEA, 1974, AS AMENDED	Sec 12, [3.2.10]

#### Other Changes

Topic	Description	Reference
Fork-lift loads	Clarification for the application of loads related to fork-lift trucks	Sec 6, [7.1.4]
Stems	Implementation of CSR Rule Change Notice 1 to 01 JAN 2022 version	Sec 1, [2.8.1]

### Chapter 12 – Hull Outfitting

#### IMO Requirements

IMO Ref.	IMO Rev.	IMO Title	Reference
MSC.1/C irc.1175/ Rev.1	9 December 2020	REVISED GUIDANCE ON SHIPBOARD TOWING AND MOORING EQUIPMENT	Sec 4, [4.2.10]

### Chapter 13 – Construction and Testing

#### IACS Unified Requirements, Unified Interpretations & Recommendations

IACS UR/UI	IACS Revision	IACS Title	Reference
UR S14	7	Testing Procedures of Watertight Compartments	Sec 6

### Other Changes

Topic	Description	Reference
Special structural details	Fine mesh and fatigue analysis is required for stays fitted in way of hatch coaming knuckles on containerships	Sec 5, Tab 8
Welding	Implementation of CSR Rule Change Notice 1 to 01 JAN 2022 VERSION	Sec 3 [3.2.6]

## PART C – Machinery, Electricity, Automation, and Fire Protection

### Chapter 1 – Machinery

#### IMO Requirements

IMO Ref.	IMO Rev.	IMO Title	Reference
MSC.482 (103)	13 May 2021	SOLAS Amendments - New regulation II-1/25-1 "Water level detectors on multiple hold cargo ships other than bulk carriers and tankers"	Sec 10, [6.12]
MSC.188 (79)/ Rev.1	28 April 2022	REVISED PERFORMANCE STANDARDS FOR WATER LEVEL DETECTORS ON SHIPS SUBJECT TO SOLAS REGULATIONS II-1/25, II-1/25-1 AND XII/12	Sec 10, [6.12.1] b)

#### IACS Unified Requirements, Unified Interpretations & Recommendations

IACS UR/UI	IACS Revision	IACS Title	Reference
UR M77	4	Storage and use of SCR reductants	Sec 11, [3.1.1]

### Other Changes

Topic	Description	Reference
Onboard Carbon Capture	Location of solvent storage tanks aft of the collision bulkhead and forward of the after peak bulkhead	Sec 12, [2.4.4]

### Chapter 2 – Electrical Installations

#### IMO Requirements

IMO Ref.	IMO Rev.	IMO Title	Reference
IMO MSC.496 (105)	28 April 2022	AMENDMENTS TO THE INTERNATIONAL CONVENTION FOR THE SAFETY OF LIFE AT SEA, 1974	Sec 3, [3.6.3] c)

### Other Changes

Topic	Description	Reference
Update on low energy content Li Ion batteries:	Update on Li Ion batteries: minimum requirements when below 20kWh	Sec 7, [1.5]

## Chapter 4 – Fire Protection, Detection and Extinction

### Other Changes

Topic	Description	Reference
Hydrogen as fuel	Introduction of specific requirements for ships assigned the additional service feature <b>hydrogenfuel</b> or the additional class notation <b>HYDROGENFUEL-PREPARED</b>	Sec 9, [2.1.1] Sec 9, [2.1.8]

### IMO Requirements

IMO Ref.	IMO Rev.	IMO Title	Reference
MSC.484 (103)	13 May 2021	AMENDMENTS TO THE INTERNATIONAL CODE FOR FIRE SAFETY SYSTEMS (FSS CODE)	Sec 15, [8.2.1]

## PART D – Service Notations

### Chapter 9 – Liquefied Gas Carriers

#### IACS Unified Requirements, Unified Interpretations & Recommendations

IACS UR/UI	IACS Revision	IACS Title	Reference
UI GC13	3	Verifications before and after the first loaded voyage	Sec 1, [6.2.4]
UR G5	New	Fail-close action of Emergency Shut Down (ESD) valve	Sec 18, [3.2]

### IMO Requirements

IMO Ref.	IMO Rev.	IMO Title	Reference
MSC.492 (104)	8 October 2021	AMENDMENTS TO THE INTERNATIONAL CODE FOR THE CONSTRUCTION AND EQUIPMENT OF SHIPS CARRYING LIQUEFIED GASES IN BULK (IGC CODE)	Sec 2, [7.1.3]
IMO MSC.476 (102)	11 November 2020	AMENDMENTS TO THE INTERNATIONAL CODE FOR THE CONSTRUCTION AND EQUIPMENT OF SHIPS CARRYING LIQUEFIED GASES IN BULK (IGC CODE)	Sec 6, [5.3.5]

### Other Changes

Topic	Description	Reference
Liquefied gas tanks	Various improvements related to the dimensioning of liquefied gas tanks	Sec 4, [3.4.4]
Membrane type LNG containment system	Reinstatement of requirements for membrane tanks in NR467 (deletion of NR686)	Sec 4, Sec 20, App 1

## Chapter 11 – Passenger ships

### IMO Requirements

IMO Ref.	IMO Rev.	IMO Title	Reference
IMO MSC.474 (102)	11 November 2020	AMENDMENTS TO THE INTERNATIONAL CONVENTION FOR THE SAFETY OF LIFE AT SEA, 1974, AS AMENDED	Sec 2, [2.1] Sec 2, [2.2.1] Sec 2, [2.3.3]

## Chapter 12 – Ro-Ro Passenger ships

### IMO Requirements

IMO Ref.	IMO Rev.	IMO Title	Reference
IMO MSC.474 (102)	11 November 2020	AMENDMENTS TO THE INTERNATIONAL CONVENTION FOR THE SAFETY OF LIFE AT SEA, 1974, AS AMENDED	Sec 2, [2.2] Sec 2, [2.3.3] Sec 2, [2.4] Sec 2, [2.4.1]

## PART F – Additional Class Notations

### New additional class notations

Class notation	Description	Reference
<b>SYNC-COM (-R)</b>	Introduction of additional class notation <b>SYNC-COM</b> for ships equipped with synchronous communication systems and complementary notation <b>-R</b> when these systems are redundant	Ch 4, Sec 3
<b>OCC-PREPARED</b>	Introduction of additional class notation <b>OCC-PREPARED</b> for ships designed to accommodate the future installation of onboard carbon capture system	Ch 9, Sec 14
<b>HVSC-PREPARED</b>	Introduction of additional class notation <b>HVSC-PREPARED</b> for ships designed to accommodate the future installation of high-voltage shore connection	Ch 14, Sec 5
<b>LASHING-RSSA( ) and -WAF</b>	Introduction of new additional class notation <b>LASHING-RSSA( )</b> covering assessment of lashing patterns of ships engaged in voyages on specific routes/specific areas Introduction of complementary notation <b>-WAF</b> for ships provided with weather dependant lashing procedures Creation of a new appendix for the definition of routes covered by the additional class notation <b>LASHING-RSSA( )</b>	Ch 12, Sec 5 & App 1

### Existing additional class notations

Class notation	Description	Reference
<b>AUT-UMS</b>	Updated <b>AUT</b> requirement for small ships	Ch 3, Sec 1 [1.2.2]
<b>SYS-NEQ</b>	Update according to Amendments to SOLAS Ch IV and Ch V and updated performance standards for radiocommunication equipments (MSC.496(105) and related resolutions)	Ch 4, Sec 1 [1.3.1]
<b>SYS-IBS</b>	Update according to Amendments to SOLAS Ch IV and Ch V and updated performance standards for radiocommunication equipments (MSC.496(105) and related resolutions)	Ch 3, Sec 2, [1.3.18] & Sec 2, Tab 3
<b>MON-SHAFT</b>	Clarifications for water-lubricated bearings	Ch 5, Sec 2, [3]
<b>LASHING-WW</b> and <b>LASHING(specific area)</b>	Deletion of the additional class notations <b>LASHING-WW</b> and <b>LASHING(specific area)</b> (replaced by the additional class notation <b>LASHING-RSSA( )</b> )	Ch 12, Sec 5