

Main changes in BV Rules for Offshore units

The main changes in Bureau Veritas Rules for the Classification of Offshore Units January 2024 edition, into force on January 1, 2024, regarding the previous editions of:

- Part A (March 2023)
- Parts B, C and D (November 2016 as amended in November 2022)

are described as follows:

Rules history

January 2024 edition into force on January 1, 2024 Contents	Previous editions: March 2023 into force on March 1, 2023 Contents
	Amendments to Parts A, B, C and D [NR 445 DT Amd 03 E November 2022]
Part A - Classification and Surveys [NR 445.A1 DT R07 E January 2024]	Part A - Classification and Surveys [NR 445.A1 DT R06 E March 2023]
Part B - Structural safety [NR 445.B1 DT R06 E January 2024]	Part B - Structural Safety [NR 445.B1 DT R05 E December 2016]
Part C - Facilities [NR 445.C1 DT R06 E January 2024]	Part C - Facilities [NR 445.C1 DT R05 E December 2016]
Part D - Services Notations [NR 445.D1 DT R08 E January 2024]	Part D - Services Notations [NR 445.D1 DT R07 E December 2016]

PART A – Classification and Surveys

Additional class notations

- *New additional class notations*

Class notation	Description	Reference
GREEN PASSPORT GREEN PASSPORT EU	Introduction of the additional class notation GREEN PASSPORT and GREEN PASSPORT EU for units designed and equipped to facilitate ship recycling, encompassing the identification, quantification and localization of materials that may cause harm to the environment and people	Ch 1, Sec 2, [8.4.12]
SUSTAINABILITY-1 SUSTAINABILITY-2	Introduction of the additional class notations SUSTAINABILITY-1 and SUSTAINABILITY-2 for units designed, equipped and maintained with a focus on the following sustainability aspects: <ul style="list-style-type: none"> - prevention of sea and air pollution - protection of the marine environment - reduction of greenhouse gases emissions - preparation for unit recycling - enhancement of people well-being on board 	Ch 1, Sec 2, [8.4.13]

Existing additional class notations

Class notation	Description	Reference
VeriSTAR-Hull FAT [YY, YEAR]	For conversion, redeployment, or life extension the additional class notation VeriSTAR-Hull is completed by FAT [YY, YEAR] with YY having a value equal to or greater than 5 years when the evaluated design fatigue life of selected structural details is not less than YY years and YEAR is the year of conversion	Ch 1, Sec 2, [8.2.2]

PART B – Hull Structure and Stability

IACS Unified Requirements, Unified Interpretations & Recommendations

UR/UI	Revision	Title	Reference
UI MODU 2	New	Inclusion of mediums of the fire-fighting systems in lightweight (2009 MODU Code Chapter 1, paragraph 1.3.30)	Ch 1, Sec 1, [3.1.1]

PART C – Facilities

Chapter 1 – Machinery and piping

Other Changes

Topic	Description	Reference
Diesel engines	Clarification of documentation to be submitted for the approval of diesel engines	Sec 2
Piping	Update of requirement for protection from mechanical damage	Sec 7, [5.9.1]
Flexible hoses	Update of requirements for flexible hoses for offshore units	Sec 7, [2.7] Sec 7, [20.2.1]
Dual fuel diesel engines	Specific appendix covering high pressure dual fuel engines is deleted (reference is made to NR467 relevant requirements)	-
Crankcase explosion relief valves	Update of reference standards	App 2, [1.2.1] App 2, [2.1.1] item a)

Chapter 2 – Electrical installations

Other Changes

Topic	Description	Reference
Semiconductor Converters	Tests on converters - Creepage and clearance distances	Sec 6, [3.2]
Cables	Update and clarification of requirements for electrical cables	Sec 9

Chapter 4 – Safety

IMO Requirements

IMO Ref.	IMO Rev.	IMO Title	Reference
MSC.506 (105)	28 April 2022	Amendments to the code for the construction and equipment of mobile offshore drilling units, 2009 (2009 MODU code)	Sec 12, [7]

IACS Unified Requirements, Unified Interpretations & Recommendations

UR/UI	Revision	Title	Reference
UR D11	Rev.4 Corr 1	Safety features	Sec 5, [4.1.2] item c)
UI SC213	5	Arrangements for remotely located survival craft	Sec 12, [2.3.5]

Other Changes

Topic	Description	Reference
Hazardous areas	Update of requirements for electrical equipment allowed in paint stores	Sec 3, [2.1] Sec 3, [4.1.1]
Safety systems	Update of requirements for low pressure CO2 piping system	Sec 11, [4.1.4]

Chapter 5 (New) – Sustainability

Other Changes

Topic	Description	Reference
Sustainability	Introduction of the additional class notations SUSTAINABILITY-1 and SUSTAINABILITY-2 for units designed, equipped and maintained with a focus on specific sustainability aspects	New Chapter 5

PART D – Service Notations

Chapter 1 – Production, Storage and Offloading Surface Units

General update and re-organization of the hull requirements according to NR467 January 2022

Topic	Description	Reference
Structural principles for ordinary stiffeners	Introduction of requirements for structural principles for ordinary stiffeners	Sec 3, [5]
Net scantling approach	Introduction of requirements for the net scantling approach principles and for the calculation of the corrosion additions	Sec 3, [7]
Structural principles for bottom structure	Introduction of requirements for structural principles of bottom structure	Sec 3, [10]
Structural principles for side structure	Introduction of requirements for structural principles of side structure	Sec 3, [11]
Structural principles for deck structure	Introduction of requirements for structural principles of deck structure	Sec 3, [12]
Load cases	Definition of the load cases	Sec 5, [4]
Sea pressures	Definition of sea pressures	Sec 5, [5]
Internal pressures	Definition of internal pressures	Sec 5, [6]
Strength characteristics of hull girder transverse sections	Introduction of the requirements for the calculation of the strength characteristics of hull girder transverse sections	Sec 6, [2]
Hull girder shear stress	Introduction of requirements for the calculation of the hull girder shear stress	Sec 6, [3.1]
Scantling of plating	Introduction of requirements for the calculation of the plating scantling	Sec 7
Scantling of ordinary stiffeners	Introduction of requirements for the calculation of the scantling of ordinary stiffeners	Sec 8
Primary supporting members	Introduction of requirements for the minimum net thickness of the webs	Sec 9, [2.2.2]
Primary supporting members	Introduction of requirements for structural modelling: model construction, model extension, boundary conditions, modelling criteria, etc.	Sec 9, [3]
Primary supporting members	Introduction of requirements for the stress calculation in finite elements model	Sec 9, [6]

Primary supporting members	Introduction of requirements for the scantling of primary members subject to impact loads	Sec 9, [8]
Fatigue check of structural details	Introduction of requirements for the deterministic fatigue analysis	Sec 10, [4]
Fore part	Introduction of requirements for the arrangement and scantling of fore part structure	Sec 11
Aft part	Introduction of requirements for the arrangement and scantling of aft part structure	Sec 12
Superstructure and deckhouses	Introduction of requirements for the arrangement and scantling of superstructure and deckhouses	Sec 13
Helicopter deck	Introduction of requirements for the arrangement and scantling of helicopter decks	Sec 14, [3]
Equipment and Safety Particulars	Number of portable gas detectors	Sec 17, [4.1]
Special structural details	Introduction of reference sheets for structural details located at the end of ordinary stiffeners	App 1

Reference tables between NR445 Edition December 2016 (as amended in November 2022) and NR445 Edition January 2024 for Part D, Chapter 1

NR445, Part D, Chapter 1					
January 2024 edition	December 2016 edition	January 2024 edition	December 2016 edition	January 2024 edition	December 2016 edition
Sec 1	Sec 1	Sec 8	Sec 7, [3] & [4]	Sec 15	Sec 9
Sec 2	Sec 2	Sec 9	Sec 7, [5]	Sec 16	Sec 10
Sec 3	Sec 3	Sec 10	Sec 7, [6]	Sec 17	Sec 11
Sec 4	Sec 4	Sec 11	Sec 8, [3]	Sec 18	Sec 12
Sec 5	Sec 5	Sec 12	Sec 8, [4]	Sec 19	Sec 13
Sec 6	Sec 6	Sec 13	Sec 8, [5]	Sec 20	Sec 14
Sec 7	Sec 7, [2]	Sec 14	Sec 8, [1], [2], [6], [7] & [8]	App 1	-