Main changes in NR483 Rules for the Classification of Naval Ships

The main changes in Bureau Veritas Rules for the Classification of Naval Ships, January 2024 edition, with respect to the previous edition (October 2022) are as follows.

Rules history

January 2024 edition entry into force on January 1, 2024 Contents	Previous edition: October 2022 entry into force on October 1, 2022 Contents
Part A - Classification and Surveys [NR 483.A1 DT R05 E January 2024]	**Part A - Classification and Surveys** [NR 483.A1 DT R04 E October 2022]
Part B - Hull and Stability [NR 483.B1 DT R05 E January 2024]	**Part B - Hull and Stability** [NR 483.B1 DT R04 E October 2022]
Part C – Machinery, Systems and Fire Protection [NR 483.C1 DT R05 E January 2024]	**Part C – Machinery, Systems and Fire Protection** [NR 483.C1 DT R04 E October 2022]
Part D - Service Notations [NR 483.D1 DT R05 E January 2024]	**Part D - Service Notations** [NR 483.D1 DT R04 E October 2022]
Part E - Additional Class Notations [NR 483.E1 DT R05 E January 2024]	**Part E - Additional Class Notations** [NR 483.E1 DT R04 E October 2022]

PART A – Classification and Surveys

Additional Class Notations

- *New additional class notations*

Notation	Description	Reference
CBRN	*New additional class notations covering CBRN protection for naval ships:* ***CBRN*** *and* ***CBRN-AIR BLAST RESISTANCE***	*Ch 1, Sec 2, [6.11] & Tab 1* *Ch 5, Sec 10*
INTERNAL CONNECTIVITY	*New additional class notation applicable to ships for which the on-board network infrastructure enables internal connectivity*	*Ch 1, Sec 2, [6.15.4] & Tab 1*

- *Existing additional class notations*

Notation	Description	Reference
FIRE	*Re-organization of the additional class notation* ***FIRE*** *in order to include multilayer fire testing (low flame-spread characteristics) and remote-release requirements for doors required to remain open for smoke evacuation purposes*	*Ch 1, Sec 2, [6.13.3] & Tab 1*
MANOVR	*Clarification of survey requirements*	*Ch 5, Sec 11*

Chapter 1 – Principles of Classification and Class Notations

Other Changes

Topic	Description	Reference
Classification Notations	*Clarification of main class symbols, their assignment and related terminology*	*Sec 2, [2.1.3]*

Chapter 2 – Assignment, Maintenance, Suspension and Withdrawal of Class

Other Changes

Topic	Description	Reference
Documentation	Introduction of 3D class review	Sec 1, [2.3.12]
Maintenance of Class	Clarification of bottom survey requirements	Sec 2, [3.1.7] & [6.5.3] & [6.5.5]
Maintenance of Class	Clarification of class renewal survey requirements	Sec 2, [5.1.2]
Maintenance of Class	Clarification of intermediate survey requirements	Sec 2, [5.1.4] & [6.3.2] to [6.3.4]

Chapter 3 – Scope of Surveys (All Ships)

Other Changes

Topic	Description	Reference
Tailshaft Survey	Addition of modified survey requirements for sea water lubricated tailshafts	Sec 5, [1.2.2] & [1.3.2] & [1.3.3]

PART B – Hull and Stability

Chapter 2 – General Arrangement Design

Other Changes

Topic	Description	Reference
Compartment arrangement	Clarification of the requirement for cofferdams between TR5 tanks and tanks for other liquid hydrocarbons	Sec 2, [2.2.3]

Chapter 4 – Structure Design Principles

Other Changes

Topic	Description	Reference
Bottom Structure	Updated requirements for single web and box type bilge keels	Sec 4, [6]

Chapter 8 – Other Structures

Other Changes

Topic	Description	Reference
Fore Part	Clarification of the scope of application of requirements	Sec 1, [1.1.1]
Bow Doors and Inner Doors	Clarification of Operating and Maintenance Manual contents	Sec 5, [8.1.1]
Side Doors and Stern Doors	Clarification of Operating and Maintenance Manual contents	Sec 6, [7.1.1]

Chapter 11 – Construction and Testing

Other Changes

Topic	Description	Reference
Welding and Weld Connections	Updated requirements for single web and box type bilge keels	Sec 1, [3.2] & Tab 5 & Fig 11

PART C – Machinery, Systems and Fire Protection

Chapter 1 – Machinery

IACS Unified Requirements, Unified Interpretations & Recommendations

IACS UR/UI	IACS Revision	IACS Title	Reference
UR M61	1	Starting arrangements of internal combustion engines	Sec 2, [3.1.1] a)
UR M60	1	Control and safety of gas turbines for marine propulsion use	Sec 5, [2.6]
UR M56	4 Corr.2	Marine gears – load capacity of involute parallel axis spur and helical gears	Sec 6, [2.1.1] & [2.5.7] & [2.6.8] & [4.2.1] a) & Tab 1 & Tab 2 & Tab 3
UR P2.7.4	10	Rules for piping design, construction and testing - P2.7.4 Mechanical joints	Sec 10, [2.4.5] k)
UR M42	6	Steering gear	Sec 12
UR E25	2	Failure detection and response of all types of steering gear control systems	Sec 12, [2.8.5]
UR P4	7	Production and application of plastic piping systems on ships	App 2

Other Changes

Topic	Description	Reference
Bending of pipes	The maximum allowable depth of corrugations during pipe bending process is set to 5% in line with common industry practice for class I and class II piping systems	Sec 10, [4.2.3] b)

Chapter 2 – Electrical Installations

Other Changes

Topic	Description	Reference
General	Cooling system of environmentally controlled spaces added to list of secondary essential services	Sec 1, [3.4.1]
Semiconductor converters	General update of the requirements for semiconductor converters, including requirements for UPS	Sec 6

IACS Unified Requirements, Unified Interpretations & Recommendations

IACS UR/UI	IACS Revision	IACS Title	Reference
UR E19	1	Ambient temperatures for electrical equipment installed in environmentally controlled spaces	Sec 12, [1]

Chapter 4 – Fire Protection, Detection and Extinction

IACS Unified Requirements, Unified Interpretations & Recommendations

IACS UR/UI	IACS Revision	IACS Title	Reference
UI SC167	1 Corr. 1	Electrical distribution boards	Sec 5, [1.2.3]

Other Changes

Topic	Description	Reference
Escape and circulation	Clarification of requirements for coamings of access hatches in internal watertight decks	Sec 8, [4.1.1] g)

PART D – Service Notations

Chapter 4 – Auxiliary Naval Vessel

Other Changes

Topic	Description	Reference
Fire Safety - Ventilation systems	Clarification that alternative configurations of the ventilation systems may be acceptable for specific naval operational situations	Sec 6, [4.2]

Chapter 6 – Military Offshore Patrol Vessel

Other Changes

Topic	Description	Reference
Fire Safety - Ventilation systems	Clarification that alternative configurations of the ventilation systems may be acceptable for specific naval operational situations	Sec 5, [2.2.3]

Chapter 7 – Landing Crafts

Other Changes

Topic	Description	Reference
Fire Safety - Ventilation systems	Clarification that alternative configurations of the ventilation systems may be acceptable for specific naval operational situations	Sec 4, [2.2.2]

PART E – Additional Class Notations

New additional class notations

Notation	Description	Reference
CBRN	New additional class notations covering CBRN protection for naval ships: **CBRN** and **CBRN-AIR BLAST RESISTANCE**	Ch 8

Chapter 5 – Monitoring Equipment (MON)

Other Changes

Notation	Description	Reference
MON-SHAFT	Update of **MON-SHAFT** notation with sea water lubrication of tailshafts	Sec 2

Chapter 7 – Environmental Protection

IMO Requirements

IMO Ref.	IMO Rev.	IMO Title	Reference
AFS Convention	17/06/2021	AFS Convention - Prohibition of cybutryne (included in **CLEANSHIP** notation)	Sec 2, [2.5]

Chapter 10 – Safety Equipment and Installations

Other Changes

Notation	Description	Reference
FIRE	Re-organization of the additional class notation **FIRE** in order to include multilayer fire testing (low flame-spread characteristics) and remote-release requirements for doors required to remain open for smoke evacuation purposes	Sec 3