

Main changes in BV Rules for Steel Ships

Main changes in Bureau Veritas Rules for the Classification of Steel Ships July 2022 edition, regarding the previous edition (January 2022) are described as follows.

Rules history

July 2022 edition into force on July 1st, 2022 Contents	Previous edition: January 2022 into force on January 1st, 2022 Contents
	Amendments to Parts A, B, C, D, E and F [NR 467.DT Amd 018 E January 2022]
Part A - Classification and Surveys [NR 467.A1 DT R19 E July 2022]	Part A - Classification and Surveys [NR 467.A1 DT R18 E July 2021]
Part B - Hull and Stability [NR 467.B1 DT R14 E July 2022]	Part B - Hull and Stability [NR 467.B1 DT R13 E July 2021]
Part C - Machinery; Electricity, Automation and Fire Protection [NR 467.C1 DT R14 E July 2022]	Part C - Machinery; Electricity, Automation and Fire Protection [NR 467.C1 DT R13 E July 2021]
Part D - Service Notations [NR 467.D1 DT R14 E July 2022]	Part D - Service Notations [NR 467.D1 DT R13 E July 2021]
Part E - Service notations for Offshore Service Vessels and Tugs [NR 467.E1 DT R05 E July 2022]	Part E - Service notations for Offshore Service Vessels and Tugs [NR 467.E1 DT R04 E July 2021]
Part F - Additional Class Notations [NR 467.F1 DT R14 E July 2022]	Part F - Additional Class Notations [NR 467.F1 DT R13 E July 2021]

PART A – Classification and Surveys

Service notations

- *New service notation*

Service notation	Description	Reference
USV	New service notation covering unmanned surface vehicle. The applicable technical requirements are given in NR681 – Unmanned Surface Vehicle	<i>Ch 1, Sec 2 [4.15.9]</i>

- *Existing service notation*

Service notation	Description	Reference
standby rescue	The service notation is to be always completed by the number of survivors, e.g.: standby rescue (150 survivors)	<i>Ch 1, Sec 2 [4.12.9]</i>

Additional service features

- *New additional service features*

Service feature	Description	Reference
EOC	New additional service feature EOC (Enhanced Operating Conditions) applicable to ships intended for dredging activities when specific fatigue calculations are performed to allow enhanced operational limits	<i>Ch 1, Sec 2 [4.13.1]</i>

Additional class notations

▪ New additional class notations

Class notation	Description	Reference
BIOFUEL READY	New class notation applicable to new and existing ships when the use of biofuel has been technically assessed and, if applicable, tested	Ch 1, Sec 2 [6.8.19]
INTERNAL CONNECTIVITY	New class notation reflecting onboard network infrastructure enabling internal connectivity	Ch 1, Sec 2 [6.23.14]
MEM	New class notation reflecting that methane emission measurements have been performed for ships assigned with the additional service features LNGfuel or CNGfuel	Ch 1, Sec 2 [6.8.15]
METHANOLFUEL-PREPARED	New class notation reflecting that ship is designed to accommodate future installation of a methanol fuel system	Ch 1, Sec 2 [6.23.11]

▪ Existing additional class notations

Class notation	Description	Reference
AMMONIAFUEL-PREPARED	Change of name of notation from AMMONIA-PREPARED to AMMONIAFUEL-PREPARED Introduction of new option A covering the arrangement for ventilation and access to ammonia related spaces	Ch 1, Sec 2 [6.23.10]
AVM-DPS	Introduction of new suffix P when all components (including piping) are included in the definition of system failure	Ch 1, Sec 2 [6.3.3]
OPEN-HATCH	Extension of scope of application to ships assigned the service notation container ship	Ch 1, Sec 2 [6.16.8]
LNGFUEL-PREPARED	Change of name of notation from GAS-PREPARED to LNGFUEL-PREPARED	Ch 1, Sec 2 [6.23.9]
REF-CONT	Options (A) & (E) are removed and scope of notation is limited to self-refrigerated containers. Option –AIRCONT is not available for REF-CONT any more since it is not relevant in the case of self-refrigerated containers.	Ch 1, Sec 2 [6.9.3]
SEEMP	Notation is no more applicable to new constructions	-
VERISTAR-HULL SIS, STAR-HULL & STAR SIS	Notations are no more applicable to new constructions	Ch 1, Sec 2 [6.2.3]

Operating area notations

▪ New operating area notations

Class notation	Description	Reference
unrestricted dredging area (T = x m)	New notation covering possible unrestricted dredging area for ships engaged in dredging activities	Ch 1, Sec 2 [5.3.2]
dredging < X miles from shore or Hs < y m (T = x m)	Complete new set of notations for ships engaged in dredging activities under specific limits	Ch 1, Sec 2 [5.3.2]

Other Changes

Topic	Description	Reference
Chapter 5 organization	Reorganization of Chapter 5 in order to reflect the reorganization of Part F	Ch 5
Steel renewal criteria	Implementation of new steel renewal criteria is implemented for ships contracted for construction on or after 1st July 2022	Ch 2, App 3 [4]

PART B – Hull Structure and Stability

IACS Unified Requirements, Unified Interpretations & Recommendations

UR/UI	Revision	Title	Reference
UR M81	New	Safety measures against chemical treatment fluids used for exhaust gas cleaning systems and the residues which have hazardous properties	Ch 2, Sec 2 [10]
UI SC225	Corr. 1	The occupied volume by flooded water of a flooded space in the SOLAS Chapter II-1 (Regulation 2(14))	Ch 3, App 3 [1.2.6]

Part B organization change – Hull Structure

General update of the hull requirements according to NR646 Edition R02 April 2022

Topic	Description	Reference
Full update according to NR646 requirements	Technical requirements are incorporated within Part B Part B is organized accordingly in new chapters numbered 1 to 13. Reference table of the current Pt B with respect to former edition of part B is given below	Ch 1 to 2 and Ch 4 to 13
Design loads	GM values from the loading manual are to be preferred on Rule default values	Ch 5, Sec 3 [2.1.1]
Hull girder loads	Added the SWBM to be considered for heavy ballast condition of bulk carriers. CSRH approach is applied: $0.75 M_{sw-min}$ iwo ballasted hold and $0.45 M_{sw-max}$ elsewhere	Ch 5, Sec 4 Tab 1
Buckling	Dynamic component of the lateral pressure to be considered in addition to the static component for the buckling check	Ch 9, Sec 1 [3.2.1]
Special structural details	Introduction of specific structural details for container ships and liquefied natural gas carrier	Ch 13, Sec 5

Reference tables between NR467 Edition July 2021 (as amended in January 2022) and NR467 Edition July 2022

Current Part B	July 2021 edition	Current Part B	July 2021 edition	Current Part B	July 2021 edition
Ch 1, Sec 1	Ch 1, Sec 1	Ch 3, App 4	Ch 3, App 4	Ch 6, Sec 1	Ch 6, Sec 1 and Sec 2
Ch 1, Sec 2	-	Ch 4, Sec 1	Ch 4, Sec 1	Ch 6, Sec 2	Ch 6, Sec 3
Ch 1, Sec 3	Ch 1, Sec 2	Ch 4, Sec 2	Ch 4, Sec 2, [1] and [2]	Ch 6, App 1	Ch 6, Sec 1, [2.6] and Ch 6, Sec 2, [2.3] and [2.4]
Ch 1, Sec 4	Ch 1, Sec 3	Ch 4, Sec 3	Ch 4, Sec 2, [3]	Ch 6, App 2	Ch 6, App 1
-	Ch 1, Sec 4	Ch 4, Sec 4	Ch 10, Sec 1	Ch 7, Sec 1	-
Ch 1, Sec 5	Ch 10, Sec 2	Ch 4, Sec 5	Ch 4, Sec 3	Ch 7, Sec 2	-
Ch 2, Sec 1	Ch 2, Sec 1	Ch 4, Sec 6	Ch 4, Sec 4 to Sec 7	Ch 7, Sec 3	Chapter 7
Ch 2, Sec 2	Ch 2, Sec 2	Ch 5, Sec 1	Ch 5, Sec 1	Ch 7, Sec 4	Ch 7, Sec 1
Ch 2, Sec 3	Ch 2, Sec 3	Ch 5, Sec 2	Ch 5, Sec 4	Ch 7, Sec 5	Ch 7, Sec 2
Ch 3, Sec 1	Ch 3, Sec 1	Ch 5, Sec 3	Ch 5, Sec 3	Ch 7, Sec 6	Ch 7, Sec 3
Ch 3, Sec 2	Ch 3, Sec 2	Ch 5, Sec 4	Ch 5, Sec 2	Ch 7, App 1	Ch 7, App 2
Ch 3, Sec 3	Ch 3, Sec 3	Ch 5, Sec 5	Ch 5, Sec 5	Ch 8, Sec 1, App 1 and App 2	Ch 7, App 1
Ch 3, App 1	Ch 3, App 1	Ch 5, Sec 6	Ch 5, Sec 6 and App 1	Ch 8, App 3	Ch 7, App 3
Ch 3, App 2	Ch 3, App 2	Ch 5, Sec 7	-	Ch 9, Sec 1	Ch 7, Sec 1, Sec 2 and Sec 3
Ch 3, App 3	Ch 3, App 3	Ch 5, Sec 8	Ch 5, Sec 1, [2.5.2] and Ch 5, Sec 2, [2.1.2]	Ch 10, Sec 1	Ch 7, Sec 4

Current Part B	July 2021 edition	Current Part B	July 2021 edition	Current Part B	July 2021 edition
Ch 11, Sec 1	Ch 8, Sec 1	Ch 11, Sec 10	Ch 8, Sec 8	Ch 12, App 2	Ch 9, App 2
Ch 11, Sec 2	Ch 8, Sec 3	Ch 11, Sec 11	Ch 8, Sec 9	Pt D, Ch 4, App 2	Ch 10, App 1
Ch 11, Sec 3	Ch 8, Sec 2 and Ch 9, Sec 3	Ch 11, Sec 12	Ch 8, Sec 10	Ch 13, Sec 1, Sec 2 and Sec 3	Ch 11, Sec 1
Ch 11, Sec 4	Ch 5, Sec 6, [2] and Ch 7, Sec 1 and Sec 2	Ch 11, Sec 13	Ch 8, Sec 11	Ch 13, Sec 4	Ch 11, Sec 2
Ch 11, Sec 5	Ch 8, Sec 4	Ch 12, Sec 1	Ch 9, Sec 1	Ch 13, Sec 5	Ch 11, Sec 3
Ch 11, Sec 6	Ch 8, Sec 5	Ch 12, Sec 2	Ch 9, Sec 2	Ch 13, Sec 6	Ch 11, Sec 4
Ch 11, Sec 7	Ch 8, Sec 6	Ch 12, Sec 3	Ch 9, Sec 3	Ch 13, App 1	Ch 11, App 1
Ch 11, Sec 8	Ch 8, Sec 12	Ch 12, Sec 4	Ch 9, Sec 4	Ch 13, App 2	Ch 11, App 2
Ch 11, Sec 9	Ch 8, Sec 7	Ch 12, App 1	Ch 9, App 1		

PART C – Machinery, Electricity & Fire Safety

Chapter 1 – Machinery

Chapter 1 Organization changes

Topic	Description	Reference
Exhaust gas pollution prevention systems	Creation of a new section dedicated to the installation of Exhaust gas pollution prevention systems onboard, including requirements from UR M81 and UR M77	New Sec 11
BWTS	Creation of a new section dedicated to the installation of Ballast Water Treatment Systems onboard, including requirements from UR M74 rev.2 and UR F45	New Sec 12

IACS Unified Requirements, Unified Interpretations & Recommendations

UR/UI	Revision	Title	Reference
UR F45	New	Installation of BWMS on-board ships	New Sec 12
UR M44	10 Corr.1	Documents for the approval of diesel engines	Sec 2 Tab 1
UR M56	4 and 4 Corr.1	Marine gears – load capacity of involute parallel axis spur and helical gears	Sec 6
UR M66	4 and 4 Corr.1	Type Testing Procedure for Crankcase Explosion Relief Valves	App 4
UR M68	3	Dimensions of propulsion shafts and their permissible torsional vibration stresses	Sec 9 [3.2.2] and App 6
UR M74	2	Ballast Water Management Systems	Sec 10 [7] and New Sec 12
UR M78	1	Safety of Internal Combustion Engines Supplied with Low Pressure Gas	App 2
UR M81	New	Safety measures against chemical treatment fluids used for exhaust gas cleaning systems and the residues which have hazardous properties	Sec 10 [18] & [20] and Sec 11
UR P2.7.4	1	Mechanical joints	Sec 10 [2.4.5] and Tab 17
UR P2.11	5	Type Approval of Mechanical joints	App 5
UR P2.12	3	Flexible Hoses	Sec 10 [2.6.3], [20.2.2] and Tab 36, 37 and 39
UR P2.13	1	Installation	Sec 10 [5.8.2]
UR P3	5	Air Pipe Closing Devices	Sec 10 [20.3]
UR P4	6	Production and Application of Plastic Piping Systems on Ships	App 3
Rec.58	2	Fire Protection of Machinery Spaces	Sec 10

Other Changes

Topic	Description	Reference
Engine components	Clarification of applicable requirements for engine components not detailed in Sec 2	Sec 2, Tab 8

Chapter 2 – Electrical installations

IACS Unified Requirements, Unified Interpretations & Recommendations

UR/UI	Revision	Title	Reference
UR E7	5	Cables	Sec 9
UR E11	4	Unified requirements for systems with voltages above 1 kV up to 15 kV	Sec 13
UR E21	1	Requirements for uninterruptible power system (UPS) units as alternative and/or transitional power	Sec 6
UI SC10	3	Precautions against shock, fire and other hazards of electrical origin	Sec 9 [1.1]
UI SC194	1	Installation of electrical and electronic appliances on the bridge and vicinity of the bridge	Sec 2 [3.1]

Other Changes

Topic	Description	Reference
D.C. dielectric test voltage	D.C. dielectric test voltages are detailed, in line with IEC 61439-1:2021	Sec 8 [3.3] and Tab 3
Slip rings	Full update of requirements for the design and testing of slip rings	Sec 10 [2]
Battery room ventilation	Improvement and clarification of the requirements for battery rooms ventilation	Sec 11 [6.5]
Cable installation in areas with a risk of explosion	Clarification of separation requirements between intrinsically safe and non-intrinsically safe circuits	Sec 12 [7.15]
Electric propulsion plant control and monitoring	Updates of requirements for the temperature monitoring of alternators	Sec 14 [4.3]

Chapter 4 – Fire Protection, Detection and Extinction

IACS Unified Requirements, Unified Interpretations & Recommendations

UR/UI	Revision	Title	Reference
UR F45	New	Installation of BWMS on-board ships	Sec 3 [3], Sec 5 and Sec 6 [7]
UR F46	New	Low pressure CO2 piping system	Sec 15 [4.1.4]
UI SC79	5	Certified Safe Type Electrical Equipment for Ships Carrying Dangerous Goods	Sec 12 [2.3]

Other Changes

Topic	Description	Reference
Spaces containing data servers	Clarification of the categorization of spaces containing centralized servers	Sec 1 [3]
Fire Control Plan	Clarification of information to be shown on Fire Control Plans	Sec 9 [2.1]
Airborne vehicles	Clarification of the requirements applicable for hangars and refuelling installations for airborne vehicles (e.g. drones)	Sec 10 [1.1.1], Sec 11

PART D – Service Notations

General update of the hull requirements according to NR646 Edition R02 April 2022

Chapter	Title	Reference
Chapter 1	Ro-Ro Cargo Ships	Sec 2
Chapter 3	Livestock Carriers	Sec 2
Chapter 4	Bulk carriers	Sec 2, Sec 3 & New App 2
Chapter 5	Ore Carriers	Sec 3
Chapter 6	Combination Carriers	Sec 2 & Sec 3
Chapter 7	Oil Tankers and FLS Tankers	Sec 1, Sec 2 & Sec 3
Chapter 8	Chemical Tankers	Sec 2 & Sec 4
Chapter 9	Liquefied Gas Carriers	Sec 1, Sec 2, Sec 4 & New Sec 20 App 1
Chapter 10	Tankers	Sec 2
Chapter 11	Passenger Ships	Sec 2 & Sec 3
Chapter 12	Ro-Ro Passenger Ships	Sec 2 & Sec 3
Chapter 13	Ships for Dredging Activity	Sec 2 & Sec 3
Chapter 14	Non-Propelled Units	Sec 2
Chapter 15	Fishing Vessels	Sec 2 & Sec 3

Chapter 2 – Container Ships

Topic	Description	Reference
Incorporation of NR625	Specific requirements for ships assigned the service notation container ship are re-introduced in NR467 Pt D, Ch 2, Sec 2 in addition to the general hull requirements specified in NR467 Pt B	Sec 2
Open-top container ships	Introduction of definition of open-top container ships and specification of the applicable technical requirements	Sec 2

Chapter 7 – Oil Tankers and FLS Tankers

IACS Unified Requirements, Unified Interpretations & Recommendations

UR/UI	Revision	Title	Reference
UR F15	6	Reinforced thickness of ballast and cargo oil piping	Sec 4 [2.1.3] and Tab 3
UI SC57	2	Venting, purging, gas freeing and ventilation	Sec 4 [4.2.6]
Rec.58	2	Fire Protection of Machinery Spaces	Sec 4 [2.6.4]

Chapter 9 – Liquefied Gas Carriers

IACS Unified Requirements, Unified Interpretations & Recommendations

UR/UI	Revision	Title	Reference
UI GC32	New	Outer Duct in Gas Fuel Piping Systems	Sec 5
UI GC33	New	Cargo Sampling	Sec 5 [6.4.1]
UI GC34	New	Cargo Filters	Sec 5 [6.5.1]
UI GC35	New	Inhibition of Cargo Pump Operation and Opening of Manifold ESD valves with Level Alarms Overridden	Sec 18
UI GC36	New	Oxygen Deficiency Monitoring Equipment in a Nitrogen Generator Room Area	Sec 13 [6.1.4]
UI GC37	New	Suitable Pressure Relief System for Air Inlet, Scavenge Spaces, Exhaust System and Crank Case	Sec 16 [7.6.4]
Rec.169	New	Guidelines on Approval of High Manganese Austenitic Steel for Cryogenic Service	Sec 6 [4.1.1]

Other Changes

Topic	Description	Reference
NR686	Clarification of the applicable requirements for ships equipped with membrane type cargo containment system	Sec 4
Hull heating system	Clarification of the applicable requirements in the case of an indirect heating system	Sec 4 [6.2.7]

Chapter 11 – Passenger Ships

IACS Unified Requirements, Unified Interpretations & Recommendations

UR/UI	Revision	Title	Reference
UR M69	Del	Qualitative Failure Analysis for Propulsion and Steering on Passenger Ships	Sec 4 [3] and App 2

PART E – Service Notations for Offshore Service Vessels and Tugs

General update of the hull requirements according to NR646 Edition R02 April 2022

Chapters	Title	Reference
Chapter 1	Tugs	Sec 4
Chapter 3	Supply Vessels	Sec 2 & Sec 4
Chapter 5	Oil Recovery Ships	Sec 2
Chapter 6	Cable-Laying Ships	Sec 2
Chapter 7	Diving Support Vessels	Sec 3
Chapter 8	Lifting Units	Sec 4
Chapter 9	Semi-submersible Cargo Ships	Sec 3 & Sec 4
Chapter 12	Pipe Laying Ships	Sec 3

Chapter 10 – Standby Rescue

Topic	Description	Reference
Stability	Introduction of new requirement addressing the crowding of survivors	Sec 3 [1.1.2]

PART F – Additional Class Notations

Part F organization changes

Description	Reference
All chapters	Part F is reorganized according to new thematics – Correlation tables are given below

IACS Unified Requirements, Unified Interpretations & Recommendations

UR/UI	Revision	Title	Reference
UR M81	New	Safety measures against chemical treatment fluids used for exhaust gas cleaning systems and the residues which have hazardous properties (CLEANSHIP notations)	Ch 9, Sec 2 [2.9.5] & [2.10.3]

New additional class notations

Class notation	Description	Reference
BIOFUEL READY	New class notation applicable to new and existing ships when the use of biofuel has been technically assessed and, if applicable, tested	<i>Ch 9, Sec 13</i>
MEM	New class notation reflecting that methane emission measurements have been performed for ships assigned the additional service features LNGfuel or CNGfuel	<i>Ch 9, Sec 9</i>

Existing additional class notations

Class notation	Description	Reference
AMMONIAFUEL-PREPARED	The requirements for AMMONIAFUEL-PREPARED notation will be transferred to NR671	<i>NR671</i>
AVM-APS	Clarification of the active components to be considered	<i>Ch 2, Sec 1</i>
AVM-DPS	Introduction of new suffix P when all components (including piping) are included in the definition of system failure	<i>Ch 2, Sec 2</i>
BATTERY SYSTEM	Clarification of lithium-ion battery installation requirements, especially regarding ventilation of battery rooms	<i>Ch 14, Sec 1</i>
CLEANSHIP	Clarification of sewage tank capacity requirement	<i>Ch 9 Sec 2 [2.3.2]</i>
COLD	Clarification of the temperature requirements for liquefied gas carriers	<i>Ch 8, Sec 4</i>
FORS	Requirements for the FORS additional class notation are transferred from NR553 to NR467 Pt F	<i>Ch 9, Sec 12</i>
HABITABILITY	Requirements for the HABITABILITY additional class notation are transferred from NI577 to NR467 Pt F	<i>Ch 6, Sec 6</i>
ICE CLASS	Alignment on FSICR latest version Addition of steering gear design requirements azimuthing main propulsors	<i>Ch 8, Sec 3</i> <i>Ch 8, Sec 3 [1.11]</i>
LASHING	Re-introduction of lashing related notations from NR625 to NR467 Introduction of coefficient theta if lashing calculations are to be performed for roll angle higher than rule roll angle when additional class notations PaRoll1 or PaRoll2 is assigned Clarification of documentation to be submitted	<i>Ch 12, Sec 5</i>
LNGFUEL-PREPARED	The requirements for LNGFUEL-PREPARED notation will be transferred to NR529	<i>NR529</i>
OPEN-HATCH	Extension of scope of application to ships assigned the service notation container ship General update according to Pt B technical principles	<i>Ch 12, Sec 6</i>
REF & REF-CARGO	Various updates of REF requirements	<i>Ch 7, Sec 1 and 2</i>
REF-CONT	Options (A) & (E) are removed and scope of notation is limited to self-refrigerated containers Option –AIRCONT is not available for REF-CONT any more since it is not relevant in the case of self-refrigerated containers.	<i>Ch 7, Sec 3</i>
STAR notations	Deletion of the notations VeriSTAR-HULL SIS , STAR-HULL and STAR SIS	<i>Ch 1</i>
SUSTAINABLESHIP	Deleted reference to SEEMP additional class notation since this notation is not available for new ships any more Clarification of the cases when BWT additional class notation EEDI requirements apply	<i>Ch 15, Sec 8</i>

General update of the hull requirements according to NR646 Edition R02 April 2022

Class notation	Reference
BLUS / SLUS	<i>Ch 12, Sec 2</i>
COLD	<i>Ch 8, Sec 4</i>
ECFP	<i>Ch 13, Sec 2</i>
GRABLOADING	<i>Ch 15, Sec 2</i>
ICE CLASS	<i>Ch 8, Sec 2</i>
MON-HULL	<i>Ch 5, Sec 1</i>
SAS	<i>Ch 12, Sec 3</i>
SINGLEPASSLOADING	<i>Ch 12, Sec 1</i>
STRENGTHBOTTOM	<i>Ch 15, Sec 1</i>
SPM	<i>Ch 11, Sec 3</i>
UNSHELTERED ANCHORING	<i>Ch 11, Sec 4</i>
STAR notations	<i>Ch 1</i>

References table between NR467 Edition July 2022 and NR467 Edition July 2021 (as amended in January 2022)

Additional class notation	July 2022	January 2022
Part F Chapter 1 – VeriSTAR System (STAR)		
VeriSTAR-HULL, VeriSTAR-HULL CM, STAR-MACH, STAR-MACH SIS, STAR-REGAS, STAR-CARGO	Pt F, Ch 1	Pt F, Ch 1
Part F Chapter 2 – Availability of Machinery (AVM)		
AVM-APS, AVM-DPS, AVM-IPS, AVM-FIRE	Pt F, Ch 2	Pt F, Ch 2
Part F Chapter 3 – Automation Systems (AUT)		
AUT-CCS, AUT-IMS, AUT-PORT, AUT-UMS	Pt F, Ch 3	Pt F, Ch 3
Part F Chapter 4 – Integrated Ship Systems (SYS)		
SYS-COM, SYS-IBS, SYS-IBS-1, SYS-NEQ, SYS-NEQ-1	Pt F, Ch 4	Pt F, Ch 4
Part F Chapter 5 – Monitoring Equipment (MON)		
MON-HULL, MON-SHAFT	Pt F, Ch 5	Pt F, Ch 5
Part F Chapter 6 – Comfort on Board and Habitability		
COMF+, COMF-NOISE y, COMF-VIB y', COMF-NOISE-Crew y, COMF-NOISE-Pax y, COMF-VIB-Crew y', COMF-VIB-Pax y'	Pt F, Ch 6, Sec 1 to 5	Pt F, Ch 6
HABITABILITY	Pt F, Ch 6, Sec 6	NI 577
Part F Chapter 7 – Refrigerating Installations (REF)		
REF-CARGO, REF-CONT, REF-STORE	Pt F, Ch 7	Pt F, Ch 7
Part F Chapter 8 – Navigation in Cold Environment		
ICE, ICE CLASS IA SUPER, ICE CLASS IA, ICE CLASS IB, ICE CLASS IC, ICE CLASS ID, YOUNG ICE 1, YOUNG ICE 2	Pt F, Ch 8, Sec 1, 2 and 3	Pt F, Ch 8
COLD CARGO, COLD DI, COLD (H tDH, E tDE)	Pt F, Ch 8, Sec 4	Pt F, Ch 11, Sec 11
Part F Chapter 9 – Environmental Protection		
CLEANSHIP, CLEANSHIP SUPER ()	Pt F, Ch 9, Sec 2	Pt F, Ch 9, Sec 2
AWT-A, AWT-B, AWT-A/B	Pt F, Ch 9, Sec 3	Pt F, Ch 9, Sec 3
BWE, BWT	Pt F, Ch 9, Sec 4	Pt F, Ch 9, Sec 3
GWT, NDO-x days, OWS-x ppm	Pt F, Ch 9, Sec 5	Pt F, Ch 9, Sec 3
NOX-x%, SOX-x%, CEMS	Pt F, Ch 9, Sec 6	Pt F, Ch 9, Sec 3
EGCS-SCRUBBER, SCRUBBER READY	Pt F, Ch 9, Sec 7	Pt F, Ch 11, Sec 24
ULEV	Pt F, Ch 9, Sec 8	Pt F, Ch 11, Sec 26
MEM	Pt F, Ch 9, Sec 9	-



VCS	Pt F, Ch 9, Sec 10	Pt F, Ch 11, Sec 7
PROTECTED FO TANK	Pt F, Ch 9, Sec 11	Pt F, Ch 11, Sec 13
FORS	Pt F, Ch 9, Sec 12	NR 553
BIOFUEL READY	Pt F, Ch 9, Sec 13	-
Part F Chapter 10 – CBRN and BIORISK		
CBRN, CBRN-WASHDOWN	Pt F, Ch 10, Sec 1	Pt F, Ch 10
BIORISK MANAGED, BIORISK SECURED	Pt F, Ch 10, Sec 7	Pt F, Ch 11, Sec 31
Part F Chapter 11 – Manoeuvring, Mooring, Anchoring and Position Keeping		
MANOVR	Pt F, Ch 11, Sec 1	Pt F, Ch 11, Sec 10
HEADING CONTROL-DS, HEADING CONTROL-IS	Pt F, Ch 11, Sec 2	Pt F, Ch 11, Sec 28
SPM	Pt F, Ch 11, Sec 3	Pt F, Ch 11, Sec 4
UNSHELTERED ANCHORING	Pt F, Ch 11, Sec 4	Pt F, Ch 11, Sec 23
DYNAPOS SAM, DYNAPOS AM, DYNAPOS AT, DYNAPOS AM/AT	Pt F, Ch 11, Sec 5	Pt F, Ch 11, Sec 6
Part F Chapter 12 – Cargo Operation, Securing and Safety		
SINGLEPASSLOADING	Pt F, Ch 12, Sec 1	Pt F, Ch 11, Sec 16
BLUS, SLUS	Pt F, Ch 12, Sec 2	Pt F, Ch 11, Sec 17
SAS	Pt F, Ch 12, Sec 3	Pt F, Ch 11, Sec 18
CARGOCONTROL	Pt F, Ch 12, Sec 4	Pt F, Ch 11, Sec 9
LASHING, LASHING-WW, LASHING (specific area)	Pt F, Ch 12, Sec 5	Pt F, Ch 11, Sec 5
OPEN-HATCH	Pt F, Ch 12, Sec 6	Pt F, Ch 11, Sec 33
EWCT	Pt F, Ch 12, Sec 7	Pt F, Ch 11, Sec 12
IATP	Pt F, Ch 12, Sec 8	Pt F, Ch 11, Sec 14
Part F Chapter 13 – Additional Notations for Fire Protection		
EFP-A, EFP-M, EFP-C, EFP-AMC	Pt F, Ch 13, Sec 1	Pt F, Ch 11, Sec 15
ECFP-1, ECFP-2, ECFP-3	Pt F, Ch 13, Sec 2	Pt F, Ch 11, Sec 30
COVENT	Pt F, Ch 13, Sec 3	Pt F, Ch 11, Sec 8
Part F Chapter 14 – Electric Propulsion or Power Supply		
BATTERY SYSTEM	Pt F, Ch 14, Sec 1	Pt F, Ch 11, Sec 21
ELECTRIC HYBRID ()	Pt F, Ch 14, Sec 2	Pt F, Ch 11, Sec 22
ELECTRIC HYBRID PREPARED ()	Pt F, Ch 14, Sec 3	Pt F, Ch 11, Sec 29
HYBRID MECHANICAL PROPULSION	Pt F, Ch 14, Sec 4	Pt F, Ch 11, Sec 32
Part F Chapter 15 – Other Additional Class Notations		
STRENGTHBOTTOM	Pt F, Ch 15, Sec 1	Pt F, Ch 11, Sec 1
GRABLOADING	Pt F, Ch 15, Sec 2	Pt F, Ch 11, Sec 2
INWATERSURVEY	Pt F, Ch 15, Sec 3	Pt F, Ch 11, Sec 3
ACCESS	Pt F, Ch 15, Sec 4	Pt F, Ch 11, Sec 19
HEL	Pt F, Ch 15, Sec 5	Pt F, Ch 11, Sec 20
FSRU-READY	Pt F, Ch 15, Sec 6	Pt F, Ch 11, Sec 34
MOB	Pt F, Ch 15, Sec 7	Pt F, Ch 11, Sec 27
SUSTAINABLESHIP-1 SUSTAINABLESHIP-2	Pt F, Ch 15, Sec 8	Pt F, Ch 11, Sec 36
Other Rule Notes		
LNGFUEL-PREPARED	NR529	Pt F, Ch 11, Sec 25
AMMONIAFUEL-PREPARED	NR671	Pt F, Ch 11, Sec 35

References table between NR467 Edition July 2021 (as amended in January 2022) and NR467 Edition July 2022

Additional class notation	January 2022	July 2022
Part F Chapter 1 – Veristar System (STAR)		
VeriSTAR-HULL, VeriSTAR-HULL CM, VeriSTAR-HULL SIS, STAR SIS, STAR-HULL, STAR-MACH, STAR-MACH SIS, STAR-REGAS, STAR-CARGO	Pt F, Ch 1	Pt F, Ch 1
Part F Chapter 2 – Availability Of Machinery (AVM)		
AVM-APS, AVM-DPS, AVM-IPS, AVM-FIRE	Pt F, Ch 2	Pt F, Ch 2
Part F Chapter 3 – Automation Systems (AUT)		
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Part F Chapter 5 – Monitoring Equipment (MON)		
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Part F Chapter 9 – Pollution Prevention (CLEANSHIP)		
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