

Main changes in BV Rules for Steel Ships

Main changes in Bureau Veritas Rules for the Classification of Steel Ships (July 2018 edition, into force on July 1st, 2018), regarding the previous edition (January 2018) are described as follows.

Rules History

July 2018 edition into force on July 1st, 2018 Contents	Previous edition: January 2018 into force on January, 1st 2018 Contents
	Amendments to Parts A, B, C, D, E and F [NR 467 DT Amd 014 E January 2018]
Part A - Classification and Surveys [NR 467.A1 DT R15 E July 2018]	Part A - Classification and Surveys [NR 467.A1 DT R14 E July 2017]
Part B - Hull and Stability [NR 467.B1 DT R10 E July 2018]]	Part B - Hull and Stability [NR 467.B1 DT R09 E July 2017]]
Part C - Machinery; Electricity, Automation and Fire Protection [NR 467.C1 DT R10 E July 2018]	Part C - Machinery; Electricity, Automation and Fire Protection [NR 467.C1 DT R09 E July 2017]
Part D - Service Notations [NR 467.D1 DT R10 E July 2018]	Part D - Service Notations [NR 467.D1 DT R09 E July 2017]
Part E - Service notations for Offshore Service Vessels and Tugs [NR 467.E1 DT R01 E July 2018]	Part E - Service notations for Offshore Service Vessels and Tugs [NR 467.E1 DT R00 E July 2017]
Part F - Additional Class Notations [NR 467.F1 DT R10 E July 2018]	Part F - Additional Class Notations [NR 467.F1 DT R09 E July 2017]

Classification and Surveys – Part A

Implementation of IACS Unified Requirements

- UR Z18 (rev. 7)
 - New survey requirements in case of significant repairs impacting response characteristics of the propulsion systems – testing astern direction– Pt A, Ch 3, Sec 3, [3.1.1].

Service notations

New service notations:

- “Liquefied gas carrier – FSU” and “FSU-LNG” – Pt A, Ch 1, Sec 2, Table 1 and [4.16.9].
- “Oil storage service” – Pt A, Ch 1, Sec 2, Table 1 and [4.4.10].

Existing service notations : **Supply – Pt A, Ch 1, Sec 2, [4.9.11]**

- Complete update of requirements for supply vessels carrying Hazardous and Noxious products, following entry into force of OSV Chemical Code.
- New notations are created as complement to **HNLS** and **WELLSTIM** for carriage of specific products:
 - **-FP≤60°C** when the ship may carry products with a flash point equal to or less than 60°C
 - **-toxic** when the ship may carry toxic products
 - **-acids** when the ship may carry acids
 - **-LG** when ship may carry liquid carbon dioxide and/or liquid nitrogen
- The existing service feature **FP≤60°C** is deleted (replaced by **-FP≤60°C** for ships with **HNLS** or **WELLSTIM** notation). The carriage of oil products with flash point lower than 60°C is subject to special consideration.

Additional service features

- New additional service features :
 - **IMO Type 1, IMO Type 2 or IMO Type 3** used to complete the service notation **Chemical Tanker** – Pt A, Ch 1, Sec 2, Tab 1 and [4.4.4].
 - **POWERGEN(OIL), POWERGEN(LNG/NG) or POWERGEN(DUALFUEL)** assigned to units fitted with power generation equipment to serve as a power generation resource – Pt A, Ch 1, Sec 2, Tab 1 and [4.17].

Additional class notations

New additional class notations:

- **LI-S4** and **LI-HG-S4** (for ships having a loading instrument performing damage stability calculations associated with an actual loading condition and actual flooding case, using direct application of user defined damage, for the purpose of providing operational information for safe return to port (SRtP)) – Pt A, Ch 1, Sec 2, Tab 3 and [6.14.28].
- **UNSHeltered ANchoring** (for ships fitted with anchoring equipment in deep and unsheltered waters complying with some specific requirements) – Pt A, Ch 1, Sec 2, Tab 3 and [6.14.43].

Existing additional class notations:

- Clarification added to **BWE** notation - Pt A, Ch 1, Sec 2, [6.8.5].
- **IG** may be granted to supply vessels - Pt A, Ch 1, Sec 2, [6.15.2].

Miscellaneous

- Survey requirements for **VeriSTAR-HULL SIS** and **STAR-HULL** notations modified – Pt A, Ch 5, Sec 2, [2] and [3].
- New operating area notation “**assisted operating area**” that can be assigned to **crew boat** and **light ship** service notations – Pt A, Ch 1, Sec 2, [5.3].
- Clarified the application of construction mark for additional class notation – Pt A, Ch 1, Sec 2, Tab 3.
- Deleted the reference to the Rules and Regulations for the Construction and the Classification of Wooden Fishing Vessels (NR 219) and added the reference to the Rules for the Classification of Naval Ships (NR 483) – Pt A, Ch 1, Sec 2, [4.16.10].

Hull Structure - Part B

Inertia of stiffeners not perpendicular to the attached plating

- Stiffeners inertia reduction due to angle with attached plating is now considered in the requirement – Ch 4, Sec 3, [3.1.1]
- According to CSRH RCN 01/2017

Design vapour pressure

- Updated definition / Ch 5, Sec 6, Symbols
- According to CSRH RCN 01/2017

Primary supporting members subject to impact loads

- Clarification: “s” is the spacing between ordinary stiffeners / Ch 7, Sec 3, Fig 6
- According to CSRBC

Flat bottom forward area

- Updated draught conditions for application – Ch 8, Sec 1, [3.1.2]
- Removed 8,6m limit

Aft and fore peak partial safety factors

- Ch 7, Sec 3 partial safety factors are to be considered for primary supporting members analysed through complete ship models – Ch 8, Sec 1, Tab 1 & Ch 8, Sec 2, Tab 1

Aft part – Ch 8, Sec 2

- Correction of the scope of application
- Recovering of the former tapering requirement

Floors stiffeners in machinery spaces

- Sniped stiffeners are not to be used in way of machinery – Ch 8, Sec 3, [2.1.8]
- Updated according to CSRH

Connections between rudder blade and solid part

- Corrected section modulus formula / Ch 9, Sec 1, [7.4.2]
- In line with URS10

Loading manual and loading instrument

- Introduction of calculation stability software for safe return to port according to IACS UR L5 Rev.3 - Pt B, Ch 10, Sec 2.

Welding: connection between ordinary stiffeners and primary supporting members

- Clarification of the different k factors used in the requirement – Ch 11, Sec 1, [2.3.8]

Mooring & anchoring equipment and fittings

- Updating of requirements about anchoring equipment according to UR.A1 Rev.6 (Oct 2016), Corr.1 (Dec 2016) and Corr.2 (Mar 2017) – Ch 9, Sec 4, [1] and [2]
- Updating of requirements about shipboard fittings and supporting hull structures associated with towing and mooring according to UR.A2 Rev.4 (Oct 2016), Corr.1 (Dec 2016) and Corr.2 (Mar 2017) – Ch 9, Sec 4, [4]
- Updating of recommendations about towing/mooring arrangement and towing/mooring lines according to REC.10 Rev.3 (Oct 2016) and Corr.1 (Dec 2016) – New Ch 9, App 2

Machinery – Part C**Steering gear design**

- Requirements for arrangements for steering capability and function on ships fitted with propulsion and steering systems other than traditional arrangements for a ship's directional controls aligned with IACS UI SC242 Corr.1 August 2011 Reinstalled, cancelling changes made in July 2017. Pt C, Ch 1, Sec 11, [4]

Scuppers and sanitary discharges

- Update of some requirements which were still referring to the "margin line", no longer applicable. Requirements clarified accordingly – Ch 1, Sec 10, [8].

Shipboard tests for machinery

- Astern trials tests requirements updated in line with IACS UR M25 Rev.4 – Pt C, Ch 1, Sec 15, [3]

Calculation of crankshafts for internal combustion engines

- Updated in line with IACS UR M53 Rev.3 – Pt C, Ch 1, App 1

Electricity and Automation – Part C**Computer based systems – Ch 3, Sec 3**

- Detailed requirements added for content of Software Registry

Fire Protection, Detection and Extinction – Part C**Carriage of dangerous goods – Ch 4, Sec 11**

- Clarification of requirements for bilge pumps installed in container cargo space – Ch 4, Sec 11, [2.6.5]
- Implementation of IMO Circular – MSC/Circ.1120 and MSC/Circ.1203
- Implementation of Unified Interpretation – UI SC89/90/91/92/103/109/111

Service Notations – Part D

Bulk Carriers – Ch 4

- Clarification of applicable requirements for permanent means of access – Ch 4, Sec 2, [3.2.1]
- Upper stools of corrugated bulkheads, updated requirements in line with CSR RCN 01/2017 – Ch 4, Sec 3, [2.5.4]

Combination carriers – Ch 6

- Upper stools of corrugated bulkheads, updated requirements in line with CSR RCN 01/2017 – Ch 6, Sec 3, [3.4.4]

Liquefied gas carriers – Ch 9

- Implementation of IMO corrigendum – MSC 93-22-Add.1-Corr.1 and MSC 93-22-Add.1-Corr.5 – Ch 9, Sec 2, 5 and 13.
- Clarification of requirements for accidental condition for membrane tanks, heeled condition removed – Ch9, Sec 4, [12.7] and [12.7]
- Addition of requirements for cargo operating manual – Ch 9, Sec18
- Addition of documents to be submitted – Ch9, Sec 1, [Tab 2]
- update/clarification of applicable requirements for reliquefaction of cargo vapours – Ch 9, Sec 7, [3]

Fishing vessels – Ch 15

- Deletion of requirement duplicated with NR600 for anchoring equipment – Ch 15, Sec 3, [5.2]

Offshore Patrol Vessels – Ch 16

- Clarification of length criteria for application of NR600

Notations for OSV and Tugs – Part E

Supply vessels –Ch 3

- Complete update of requirements for supply vessels carrying Hazardous and Noxious products, following entry into force of OSV Chemical Code.
- Requirements for **HNLS** and **WELLSTIM** vessels now refer to applicable requirements of OSV Chemical code, in accordance with the type of product intended to be carried and corresponding new notations (see [Pt A, Ch 1, Sec 2](#)).

Fire fighting ships – Ch 4

- Requirements for external boundaries clarified – Sec 4, [2.1.3]
- Requirements for number of firemen's outfits clarified – Sec 3, [7.1.1]

Lifting units – Ch 8

- Clarification of stability criteria for lifting operations conducted under environmental and operational limitations - Ch 8, Sec 3, [2.2.1]
- Clarification of requirements for crane pedestal connection to deck and material grade – Ch 8, Sec 4, [3.2]

Additional Class Notations – PART F

Automation Systems (AUT), unattended machinery spaces AUT-UMS – Ch 3, Sec 1

- New requirements for testing procedure for ships with dual fuel engines

SYS-COM Notation – Ch 4, Sec 3

- Clarification of applicable standard for navigation equipment

COMFORT – Ch 6

- Clarification of the applicable procedures for measurements during sea trials – Ch 6, Sec 1, [1.2.1]

Pollution Prevention – Ch 9**BWE notation**

- Clarification of the scope of BWE notation with regard to statutory requirements for BWM

BWT notation

- Clarification of the reference statutory documents for BWT notation

IATP – Ch 11, Sec 14

- Clarification of the conditions of application for the dual setting of the cargo tanks pressure relief valves.

Battery Systems – Ch 11, Sec 21

- Update of testing requirements – Sec 21, [5.1] & [5.3]

UNSHeltered ANCHORING – Ch 11, Sec 23

- New requirements about anchoring equipment in deep and unsheltered water according to REC.10 Rev.3 (Oct 2016) and Corr.1 (Dec 2016)

Scrubber Ready – Ch 11, Sec 24

- New section, incorporation of former NR 644, no change in technical requirements

Gas-prepared ships – Ch 11, Sec 25

- New section, incorporation of former NR 627, no change in technical requirements