Main changes in Bureau Veritas Rules for the Classification of Steel Ships (January 2020 edition, into force on January, 1st 2020), regarding the previous edition (July 2019) are described as follows:

### Rules History

|-------------------------------|-------------------------------------------------------------------------|
| **Part A - Classification and Surveys**  
[NR 467.A1 DT R16 E July 2019] |
| **Part B - Hull and Stability**  
[NR 467.B1 DT R11 E July 2019] |
| **Part C - Machinery; Electricity, Automation and Fire Protection**  
[NR 467.C1 DT R12 E January 2020] | **Part C - Machinery; Electricity, Automation and Fire Protection**  
[NR 467.C1 DT R11 E July 2019] |
| **Part D - Service Notations**  
[NR 467.D1 DT R12 E January 2020] | **Part D - Service Notations**  
[NR 467.D1 DT R11 E July 2019] |
| **Part E - Service notations for Offshore Service Vessels and Tugs**  
[NR 467.E1 DT R03 E January 2020] | **Part E - Service notations for Offshore Service Vessels and Tugs**  
[NR 467.E1 DT R02 E July 2019] |
| **Part F - Additional Class Notations**  
[NR 467.F1 DT R12 E January 2020] | **Part F - Additional Class Notations**  
[NR 467.F1 DT R11 E July 2019] |
Classification and Surveys - PART A

Implementation of IACS Unified Requirements

- UR Z1 (rev. 7):
  - Accordance with IMO Res. A.1120(30) – HSSC Guidelines – Pt A, Ch 3, Sec 1, Ch 4, Sec 3, 5 and 6.
- UR Z7 (rev. 27):
  - Thickness Measurement of Internals in FP and AP Tanks – Pt A, Ch 2, Sec 2 and Ch 3, Sec 3.
- UR Z27 (rev. 0 - NEW):
  - Condition monitoring and condition-based maintenance – Pt A, Ch 2, Sec 2, App 1, App 2 and App 4.

Service notations

- New services notations:
  - NIL.
- Existing service notations:
  - “Liquefied gas carrier” type notations are completed with descriptive notations: ([cargo type], [ship type - IGC Code], [cargo tank design pressure], [minimum cargo temperature]) – Pt A, Ch 1, Sec 2.

Additional service features

- New additional service feature:
  - NIL
- Existing additional service feature:
  - NIL

Additional class notations

- New additional class notations:
  - ECFP-1, ECFP-2 and ECFP-3 with mandatory complementary notations (Area 1, X,m ; ... ; Area n: X,m) for ECFP-2 and ECFP-3 only – Pt A, Ch 1, Sec 2 and Ch 5, Sec 1 and 10.
- Existing additional class notations:
  - DYNAPOS: new complementary notation -DDPS (replacing -ITP) – Pt A, Ch 1, Sec 2 and Ch 5, Sec 10.

Miscellaneous

- Updating of definitions of Anchor Handling Vessel and Lifting Unit – Pt A, Ch 1, Sec 2
- Updating Rules for yachts in accordance with new edition of NR 500 – Pt A, Ch 1, Sec 2, Ch 2, Sec 2, Ch 3, Sec 1 and Sec 4, Ch 1, Sec 4 and Sec 8
- New survey requirements for inspection of tanks used for fuel for auxiliary vehicles – Pt A, Ch 3, Sec 3
- New survey requirements for notation HEADING CONTROL – Pt A, Ch 1, Sec 2 and Ch 5, Sec 1 and Sec 10
- Corrections of error in Rules – Pt A, Ch 2, App 3, Tab 2
- Updating survey requirements in connection with PSC inspections – Pt A, Ch 1, Sec 1, [3.4.1] and Ch 2, Sec 2, [6.3.1]
- New survey requirement for inspection of box cooler plate – Pt A, Ch 3, Sec 4, [2.1.3]
- Updating example with wrong dash ESP notation – Pt A, Ch 1, Sec 2, [1.2.2]
- Clarification of the application of the VCS notation for gas carriers – Pt A, Ch 1, Sec 2
- Updating survey requirements for ULEV (intermediate removed) – Pt A, Ch 5, Sec 7, [3.3.1]
- New survey requirements for inspections of scrubber overboard distance piece (corrosion) – Pt A, Ch 3, Sec 1, [3.1.7]
- Updating requirements for assignment of SYS-COM notation – Pt A, Ch 1, Sec 2, [6.5.4]
Hull Structure and Stability - PART B

General Arrangement – Ch 2 Sec 1, Ch 2 Sec 2
- Differentiation between freeboard deck of cargo ships and bulkhead of passenger ships is made—Pt B, Ch 2, Sec 1 [3] and clarification of requirement related to the installation of aft peak bulkhead is made in Pt B – Ch 2, Sec 1 [4]
- Implementing amended SOLAS requirements covering double bottom arrangements—Pt B, Ch 2, Sec 2 [3]

Doors in watertight boundaries – Ch 2, Sec 1
- Implementing IACS UI SC156 covering doors fitted on watertight boundaries of cargo ships—Pt B, Ch 2, Sec 1 [6]

Intact Stability – Ice Accretion – Ch 3 Sec 2
- Implementing amended Intact Stability Code covering ice accretion for ships carrying timber deck cargoes—Pt B, Ch 3, Sec 2 [6]

Damage Stability – Ch 3 Sec 3 & Appendix 3
- Implementing amended SOLAS damage stability requirements—Pt B, Ch 3, Sec 3 [3.4.3] and Appendix 3

Internal pressures – Ch 5 Sec 6
- Modification of the design vapour pressure to be considered in case of liquefied gas cargo tank or liquefied gas fuel tank

Testing of watertight closures – Ch 8 Sec 7, Sec 8, Sec 12 and Ch 11 Sec 3
- Implementing amended SOLAS testing requirements and applicable to watertight closures—Pt B, Ch 8, Sec 7 [11], Ch 8 Sec 8 [5], Ch 8, Sec 12 [5] & [6] and Pt B, Ch 11, Sec 3 Table 2

Arrangement of superstructure openings – Ch 8 Sec 10
- Implementing additional requirements regarding freeing port closures for ships operating in areas where icing is likely to occur made—Pt B, Ch 8, Sec 10 [6.1.5]
- Correction of the shear transfer coefficient—Pt B, Ch 8, Sec 10 [3.3.7]

Loading Instrument – Ch 10 Sec 2
- Additional requirements applicable to ships engaged in anchor handling operations—Pt B, Ch 10, Sec 2 [4.4.7]
Machinery, Electricity & Fire Safety - PART C

Machinery – Ch 1 Sec 1, Sec 2 & Sec 7
• Implementing UR M3 rev.6 - Speed governor and overspeed protective device – Pt C, Ch 1, Sec 2
• Implementing UR M46 rev.2 - Ambient conditions – Inclinations – Pt C, Ch 1, Sec 1, Table 1
• Implementing UR M52 rev.1 - Length of aft stern bush bearing, deleted the specificity of bearings of lignum vitae – Pt C, Ch 1, Sec 7 [2.4]
• Implementing UR M72 rev.2 – Certification of engine components – Pt C, Ch 1, Sec 2

Piping systems – Ch 1, Sec 10 & App 3
• Implementing UR P4 rev.5 – Production and application of Plastic piping systems on ships – Pt C, Ch 1, App 3
• Implementing UR P2.13 - Piping installation – Pt C, Ch 1, Sec 10 [5.8.2]
• Implementing UR P2.7.4 rev.9 – Mechanical joints for piping systems – Pt C, Ch 1, Sec 10 [2.4.5] and Table 17 and 18
• Redrafting and clarification of the requirements for flexible hoses and expansion joints - Pt C, Ch 1, Sec 10 [5] and [20]

EGCS (scrubber systems) – Ch 1, Sec 10 [18.5] & [20]
• Detailed the requirement for scrubber certification
• Included detailed design requirements for the distance piece of the overboard discharge

Electrical installations – Ch 2 Sec 3
• Implementing UR E24 rev.1 - Harmonic Distortion for Ship Electrical Distribution System including Harmonic Filters – Pt C, Ch 2, Sec 3 [3.22]

Automation – Ch 3 Sec 2 & Sec 6
• Implementing UR E10 rev.7 - Test Specification for Type Approval of electrical, electronic and programmable equipment – Pt C, Ch 3, Sec 6, Tab 1 and Tab 2
• Clarified the requirements for means of communication – Pt C, Ch 3, Sec 2

Fire Safety – Ch 4 Sec 12
• Implementing SOLAS II-2 Amendments as per MSC.404(97), MSC.409(97), MSC.410(97) and MSC.421(98) including
  • Requirements for evacuation analysis
  • Update for requirements for the calculation of the width of stairways
  • Update of requirements for helicopter facilities
  • Clarification of requirements for the carriage of vehicles with fuel in their tanks
• Clarified requirements for fuel for auxiliary vehicles
• Implementing UI SC288 detailing the required air changes in the space containing the bilge pump for cargo holds intended for the carriage of dangerous goods – Pt C, Ch 4, Sec 12 [2.6.5] and Table 1

Fire safety systems – Ch 4 Sec 15
• Implementing FSS Code amendments as per MSC.403(97), especially new requirements for foam firefighting systems
Service Notations - PART D

Passenger ships – Ch 11
- Implementing SOLAS II-1 Amendments as per MSC.421(98) regarding the sizing of the bilge system
- Implementing IACS UI SC156 covering doors fitted on watertight boundaries of passenger ships in Pt D – Ch 11, Sec 2
- Implementing amended SOLAS amendments related to ship arrangement in Sec 2 and damage stability for passenger ships in Pt D – Ch 11, Sec 3

Roro-Passenger ships – Ch 12
- Implementing IACS UI SC156 covering doors fitted on watertight boundaries of roro-passenger ships in Pt D – Ch 12, Sec 2
- Implementing amended SOLAS amendments related to ship arrangement in Sec 2 and damage stability for roro-passenger ships in Pt D – Ch 12, Sec 3

Service Notations for Offshore Service Vessels and Tugs - PART E

Tugs – Ch 1
- Included the requirements of UR M79 for towing winch emergency release systems – Pt E – Ch 1, Sec 3 [2.7]

Anchor handling vessels – Ch 2
- Creation of new section Sec 2 covering ship arrangement and the access to machinery space and spaces below the exposed cargo deck
- Implementing Intact Stability Code as amended in Pt E – Ch 2, Sec 3 & Sec 4

Supply vessels – Ch 3
- Additional requirements covering the access to machinery space and spaces below the exposed cargo deck in Pt E – Ch 3, Sec 2 [3.1.5]
- Additional requirements covering quick release of towline for which engaged in towing operations in Pt E – Ch 3, [5.3.3]

Additional Class Notations - PART F

Automation systems, AUT-UMS – Ch 3, Sec 1
- Updated the required alarms, remote indications and safeguards for reciprocating internal combustion engines installed in unattended machinery spaces as per UR M35 rev.8 and UR M36 rev.6 – Pt F – Ch 3, Sec 1 Table 2, Table 3 and Table 28

DYNAPOS – Ch 11, Sec 6
- Existing additional class notation:
  - DYNAPOS: new complementary notation -DDPS (replacing -ITP)

Enhanced cargo fire protection for container ships – Ch 11, Sec 30
- New additional class notations ECFP-1, ECFP-2 and ECFP-3, detailing measures aimed at improving the ability to manage a container cargo fire