Rules for Building and Classing

Marine Vessels

Notices and General Information



January 2023

RULES FOR BUILDING AND CLASSING

MARINE VESSELS
JANUARY 2023

NOTICES AND
GENERAL INFORMATION

American Bureau of Shipping
Incorporated by Act of Legislature of
the State of New York 1862

© 2023 American Bureau of Shipping. All rights reserved.
ABS Plaza
1701 City Plaza Drive
Spring, TX 77389 USA

Notices and General Information

CONTENTS

Introduction **1**

TABLE 1 Applicable Editions of Booklets Comprising January 2023 Marine Vessel Rules 4

TABLE 2 Division and Numbering of Rules 5

Rule Change Notice *(1 January 2023)* **6**

TABLE 3 Summary of Changes from the July 2022 Rules 6

Notices and General Information

Introduction

1. ABS Rules and Guides are developed and updated to keep pace with the marine industry. This has resulted in a complex library of Rules and Guides. Many requirements are repeated throughout the ABS Rules and Guides, making use and maintenance of Rules/Guides more challenging. To address the duplication of requirements and to provide a set of Rules that is easier to navigate, ABS has consolidated Rules for both Vessels and Offshore Units.

For vessels, the *Rules for Building and Classing Steel Vessels*, the *Rules for Building and Classing Steel Vessels Under 90 meters (295 feet) in Length* and the *Rules for Building and Classing Offshore Support Vessels* have been consolidated into the ***Rules for Building and Classing Marine Vessels*** (the *Marine Vessel Rules*).

2. The year 2023 edition of the *Rules for Building and Classing Marine Vessels* consists of the eleven (11) booklets as shown in Table 1. In this regard, we would bring the following to the user's attention:

a) The purpose of the generic title ABS *Rules for Conditions of Classification (Part 1)* is to reflect the expanded contents of PART 1, as a result of including consolidated requirements for "Classification" applicable to all types of and sizes of vessels, barges and specific shipboard arrangements/systems, etc., except for those in offshore service, as specified in the Foreword to Part 1. The supplemental requirements previously contained in individual Rules and Guides have been consolidated into Chapters of Part 1.

b) The purpose of the generic title ABS *Rules for Materials and Welding* of PART 2 is to emphasize the common applicability of the requirements to ABS-classed vessels, other marine structures and their associated machinery, and thereby make PART 2 more readily a common "PART" of various ABS Rules and Guides, as appropriate. The Rules for steel, aluminum, and FRP materials have been consolidated into a single Part 2.

c) The purpose of the generic title ABS *Rules for Survey After Construction (Part 7)* is to reflect the expanded contents of PART 7, as a result of including consolidated requirements for "Surveys After Construction" applicable to all types and sizes of vessels, barges and specific shipboard arrangements/systems, etc., as specified in Part 7, Chapter 1, Section 1.

3. The numbering system applied in the Rules is shown in Table 2.

4. The primary changes from the July 2022 Rules are identified and listed in Table 3. The effective date of the indicated Rule Changes is 1 January 2023, unless specifically indicated otherwise.

For certain changes that have a major impact on shipyards, designers and vendors, ABS has instituted a two-year Rule cycle to give the industry more time to prepare for these changes. The text of these changes will appear in a box along with the effective date just under the existing Rule requirement.

5. The listing of CLASSIFICATION SYMBOLS AND NOTATIONS is available from the ABS website http://www.eagle.org/absdownloads/index.cfm for download.

6. In association with the harmonization of the Common Structural Rules (CSR) for Bulk Carriers and Oil Tankers, on 1 July 2015, the three Sub-parts, 5A, 5B, and 5C, of Part 5 of the *Rules for Building and Classing Marine Vessels* are as follows:

Contents

Part 5A: General Hull Requirements (IACS CSR Part 1)

Part 5B: Ship Types (IACS CSR Part 2)

Part 5C: This Part is divided into two separate booklets as follows:

Chapters 1 to 6:	Tankers and Bulk Carriers not covered by Part 5A and Part 5B and Container Carriers
Chapters 7 to 19:	Passenger Vessels, Liquefied Gas Carriers, Chemical Carriers, Vessels Intended to Carry Vehicles, Water Carriers, Membrane Tank LNG Carriers, Vessels Using Gases or other Low-Flashpoint Fuels, Fire Fighting Vessels, Oil Recovery Vessels, Escort Vessels, Vessels Under 90 m (295 ft) Intended for Towing, Fishing Vessels, and Box-Shaped Bulk Carriers.

Part 5D: Offshore Support Vessels for Specialized Services

Application – Oil Tankers

The structural requirements in Part 5A, Pt 1 and Part 5B, Pt 2, Ch 2 of the Rules are applicable for double hull oil tankers of 150 m in length and upward, with structural arrangements as specified in Part 5A, Pt 1, Ch 1, Sec 1, [1.3].

For oil tankers with structural arrangements not covered by Part 5A, Pt 1 and Part 5B, Pt 2, Ch 2, the requirements in Part 5C, Chapters 1 or 2, are to be complied with.

Application – Bulk Carriers

The structural requirements in Part 5A, Pt 1 and Part 5B, Pt 2, Ch 1 of the Rules are applicable for single side skin and double side skin bulk carriers of 90m in length and upward, with structural arrangements as specified in Part 5A, Pt 1, Ch 1, Sec 1, [1.2].

For vessels intended to carry ore or bulk cargoes, other than the single side skin or double side skin bulk carriers of 90 m in length and upward with structural arrangements as specified in Part 5A, Pt 1 and Part 5B, Pt 2, Ch 1, the requirements in Part 5C, Chapters 3 or 4 are to be complied with.

Application – ABS Construction Monitoring Program

These compulsory requirements for **CSR** notation are specified in Part 5C, Appendix 2.

Application – Onboard Systems for Oil Tankers and Bulk Carriers

The onboard systems for all tankers are to comply with the requirements of Part 5C, Chapter 1, Section 7, and for all bulk carriers are to comply with the requirements of Part 5C, Chapter 3, Section 7 of the Rules.

Application – References

Other Parts of the ABS Rules that are referenced within Part 5A, 5B, 5C, and 5D are also to be applied.

The following flow chart indicates the application of the Rules and typical Class Notations for tanker and bulk carrier vessels, of which arrangements and scantlings are in full compliance with the Rules:

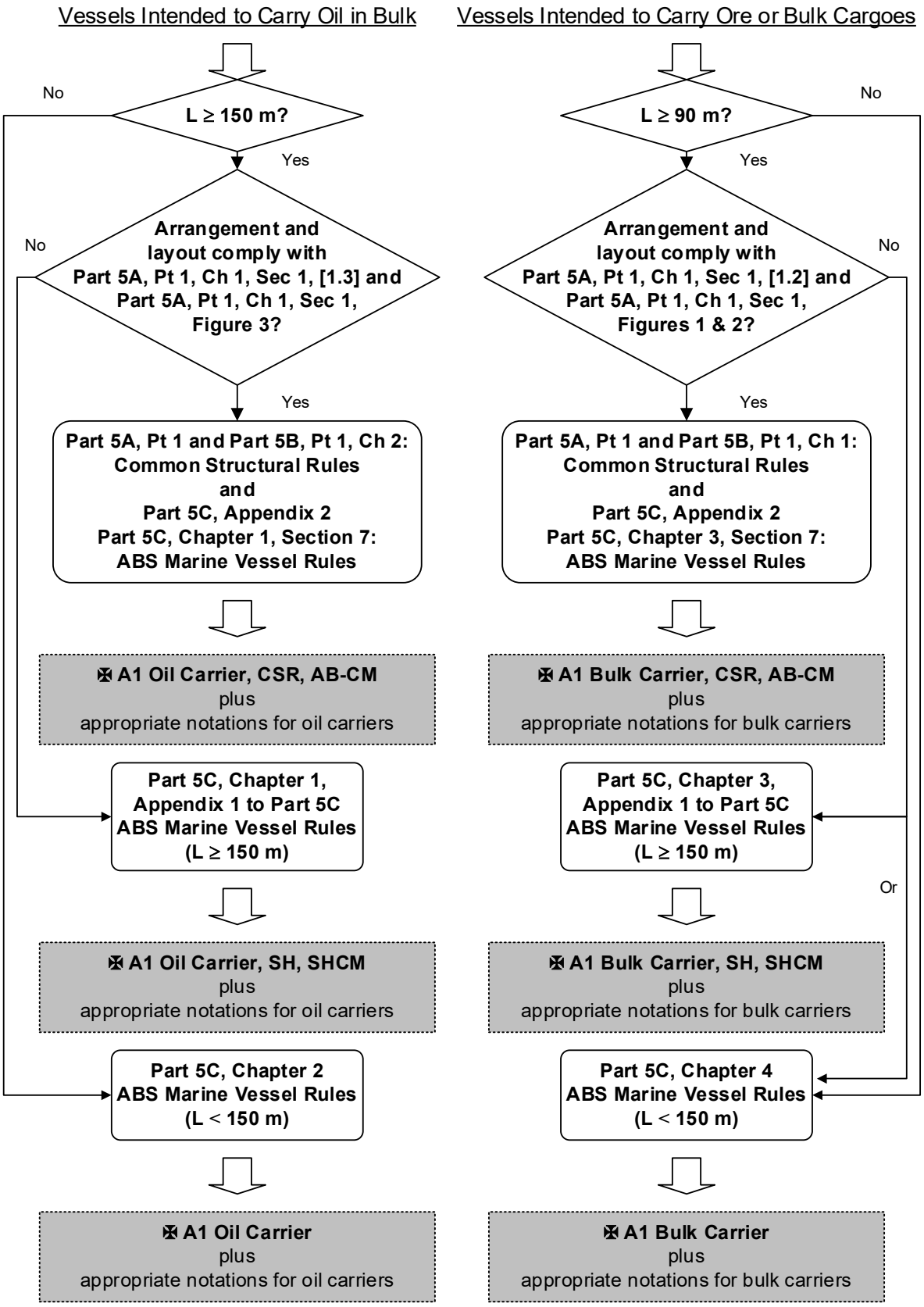
Vessels Intended to Carry Oil in Bulk
L ≥ 150 m?
No
Yes
Arrangement and layout comply with Part 5A, Pt 1, Ch 1, Sec 1, [1.3] and Part 5A, Pt 1, Ch 1, Sec 1, Figure 3?
No
Yes
Part 5A, Pt 1 and Part 5B, Pt 1, Ch 2: Common Structural Rules and Part 5C, Appendix 2 Part 5C, Chapter 1, Section 7: ABS Marine Vessel Rules
✠ A1 Oil Carrier, CSR, AB-CM plus appropriate notations for oil carriers
Part 5C, Chapter 1, Appendix 1 to Part 5C ABS Marine Vessel Rules (L ≥ 150 m)
✠ A1 Oil Carrier, SH, SHCM plus appropriate notations for oil carriers
Part 5C, Chapter 2 ABS Marine Vessel Rules (L < 150 m)
✠ A1 Oil Carrier plus appropriate notations for oil carriers
Vessels Intended to Carry Ore or Bulk Cargoes
L ≥ 90 m?
No
Yes
Arrangement and layout comply with Part 5A, Pt 1, Ch 1, Sec 1, [1.2] and Part 5A, Pt 1, Ch 1, Sec 1, Figures 1 & 2?
No
Yes
Part 5A, Pt 1 and Part 5B, Pt 1, Ch 1: Common Structural Rules and Part 5C, Appendix 2 Part 5C, Chapter 3, Section 7: ABS Marine Vessel Rules
✠ A1 Bulk Carrier, CSR, AB-CM plus appropriate notations for bulk carriers
Part 5C, Chapter 3, Appendix 1 to Part 5C ABS Marine Vessel Rules (L ≥ 150 m)
Or
✠ A1 Bulk Carrier, SH, SHCM plus appropriate notations for bulk carriers
Part 5C, Chapter 4 ABS Marine Vessel Rules (L < 150 m)
✠ A1 Bulk Carrier plus appropriate notations for bulk carriers

TABLE 1
Applicable Editions of Booklets Comprising January 2023 Marine Vessel Rules

Notices and General Information			January 2023
Part 1:	Rules for Conditions of Classification		January 2023
Part 2:	Rules for Materials and Welding Rules for Testing and Certification of Materials Rules for Welding and Fabrication		January 2023
Part 3:	Hull Construction and Equipment		January 2023
Part 4:	Vessel Systems and Machinery		January 2023
Part 5A: (Booklet 1)	Specific Vessel Types General Hull Requirements (IACS CSR Part 1)		July 2022 (on and after 1 July 2022)
Part 5B: (Booklet 1)	Specific Vessel Types Ship Types (IACS CSR Part 2)		July 2022 (on and after 1 July 2022)
Part 5C: (Booklet 2)	Specific Vessel Types Chapter 1 & 2 Chapter 3 & 4 Chapter 5 & 6	 Oil Carrier Bulk Carrier Container Carrier	January 2023
Part 5C: (Booklet 3)	Specific Vessel Types Chapter 7 Chapter 8 Chapter 9 Chapter 10 Chapter 11 Chapter 12 Chapter 13 Chapter 14 Chapter 15 Chapter 16 Chapter 17 Chapter 18 Chapter 19	 Passenger Carrier Liquefied Gas Carrier Chemical Carrier Vehicle Carrier Water Carrier Liquefied Gas Carrier with Membrane Tanks Vessels Using Gases or other Low-Flashpoint Fuels Fire Fighting Vessels Oil Recovery Vessels Escort Vessels Vessels Under 90m (295 ft) Intended for Towing Fishing Vessels Vessels Intended to Carry Bulk Cargoes without Upper Wing Tanks and Lower Wing Tanks	January 2023

Part 5D: (Booklet 4)	Offshore Support Vessels for Specialized Services Chapter 1 Vessels Intended for Offshore Support Services Chapter 2 Offshore Supply Chapter 3 Anchor Handling and Towing Chapter 4 Fire Fighting Chapter 5 Diving and Remotely Operated Vehicles (ROVs) Support Chapter 6 Oil Spill Recovery Chapter 7 Safety Standby Rescue Chapter 8 Pipe Laying Chapter 9 Heavy Lift Chapter 10 Well Intervention Chapter 11 Well Stimulation Chapter 12 Well Test Chapter 13 Escort Chapter 14 Wind Turbine Installation, Maintenance and Repair (Wind IMR) Chapter 15 Cable Laying Chapter 16 Subsea Services	January 2023
Part 6:	Specialized Items and Systems Chapter 1 Strengthening for Navigation in Ice Chapter 2 Refrigerated Cargo Vessels	January 2023
Part 7:	Rules for Survey After Construction	January 2023

TABLE 2
Division and Numbering of Rules

Division	***Number***
Part	Part 1
Chapter	Part 1, Chapter 1
Section	Section 1-1-1
Subsection (see Note 1)	1-1-1/1
Paragraph (see Note 1)	1-1-1/1.1
Subparagraph	1-1-1/1.1.1
Item	1-1-1/*1.1.1(a)*
Subitem	1-1-1/*1.1.1(a)i)*
Appendix	Appendix 1-1-A1 or Appendix 1-A1-1

Note:

1 An odd number (1, 3, 5, etc.) numbering system is used for the Rules. The purpose is to permit future insertions of even-numbered paragraphs (2, 4, 6, etc.) of text and to avoid the necessity of having to renumber the existing text and associated cross-references, as applicable, within the Rules and associated process instructions, check sheets, etc.

Rule Change Notice *(2023)*

TABLE 3
Summary of Changes from the July 2022 Rules

EFFECTIVE DATE 1 January 2023 – shown as *(2023)*

Part/Para. No.	*Title/Subject*	*Status/Remarks*
PART 1	**Rules for Conditions of Classification**	
Foreword	Foreword	To change the reference in line with the "Guide for Building and Classing Yachts" being promoted to Rules.
1-1-4/1.1	Rules for Classification	To change the reference in line with the "Guide for Building and Classing Yachts" being promoted to Rules.
1-9-2/1.1, 1.3, 1.5	Classification Symbols and Notations	To change the reference in line with the "Guide for Building and Classing Yachts" being promoted to Rules.
1-9-3	Rules for Classification	To change the reference in line with the "Guide for Building and Classing Yachts" being promoted to Rules.
1-9-4/3, 5, 9	Submission of Plans	To change the reference in line with the "Guide for Building and Classing Yachts" being promoted to Rules.

EFFECTIVE DATE 1 January 2023 – shown as *(2023)*
(based on the date of purchase order of the materials)

Part/Para. No.	*Title/Subject*	*Status/Remarks*
PART 2	**Materials and Welding**	
2-1-1/1.5	General Requirements	To provide additional guidance on enrollment in the ABS QA Program.
2-1-1/17.15	General Requirements	To provide specific guidance on when Z quality steel is required and on certification of non-Z grade plate to Z quality based on the through thickness test.
2-4-1/3.1	Hull Construction	To provide guidance for material edge preparation on thicker members in alignment with AWS D1.1 [2020] Clause 7.14.7.
2-4-1/3.5	Hull Construction	To add reference to 2-A9-1/7.1.4, which includes guidance for qualification of weld procedures with shop primers.
2-4-2/1.3	Boilers, Unfired Pressure Vessels, Piping and Engineering Structures	To clarify the requirement that pressure vessel and boiler welding procedures are to be submitted to ABS Materials Department for complete engineering review.
2-4-4/5.13	Piping	To clarify that brazing procedure specifications and brazing operators are to be performed using qualified procedures, similar to weld procedures.
2-A9-1/1.5	General Requirements	To include reference to requirements for aluminum welding procedure qualification.
2-A9-1/7.1.4, 9.1, 9.19.2	General Requirements	To provide guidance for qualification of weld procedures with shop primers.
2-A11-2/1.9 & 1.11	Welders Qualification for Hull Structures	To provide reference to aluminum and stainless steel welder qualification requirements.

EFFECTIVE DATE 1 January 2023 – shown as *(2023)*
(based on the contract date for new construction between builder and Owner)

Part/Para. No.	*Title/Subject*	*Status/Remarks*
PART 3	**Hull Construction and Equipment**	
3-1-2/1.3.2	General Requirements	To include the requirements for the details of interfacing bimetallic inserts.
3-1-2/3.1iii)	General Requirements	To provide specific guidance on when Z quality steel is required and on certification of non-Z grade plate to Z quality based on the through thickness test.
3-1-2/5.5	General Requirements	To clarify when a direct structural analysis is required (for vessels not subject to CSR or SafeHull type analysis).
3-1-2/17 and Tables 6 through 8	General Requirements	To delete Table 6 and create certification tables for materials, equipment, and structural components in new Tier of Approval format similar to Part 4 of the Rules for machinery.
3-2-3/5.1	Decks	To reinstate limits on deck plating thickness that were previously in the Under 90m Rules.
MVR 3-2-14/ 23.19.2, 25.7 and 25.15.5	Rudders and Steering Equipment	To address bolting arrangements that are equivalent to fitted bolts (such as a combination of holding bolts and shear elements) and to maintain consistency between the requirements for azimuth thrusters and podded thrusters due to the recent changes in the section on podded thruster.
MVR 3-2-17/3.5	Bulwarks, Rails, Freeing Ports, Portlights, Ventilator, Tank Vents and Overflows	To clarify the requirements for accommodation ladder/gangway/pilot ladder and specify standards to which they are to be certified.
MVR 3-2-18/5.1	Ceiling, Sparring, and Protection of Steel	To clarify that the Guidance Notes are not mandatory to be complied with.
MVR 3-5-1/15.1	Anchoring, Mooring, and Towing Equipment	To require Shipboard Fittings be submitted for review, in line with IACS UR A2, Shipboard Fittings (A2.1.4 for towing, A2.2.4 for mooring).
PART 4	**Vessel Systems and Machinery**	
4-1-1/1.5, 9	Classification of Machinery	To add reference to the requirements for AUTONOMOUS and REMOTE-CON notations in 4-1-1/1.5 of MVR.
4-1-1/Table 3	Classification of Machinery	To update rows #16 & 19 and add new row (#17) in MVR 4-1-1/Table 3 to align with the other requirements in the Table with the related sections (4-8-3/7, 4-8-3/8 and 4-8-5/3.7.5) as listed and to align with MOU Rules 6-1-7/19.23 TABLE 1, as applicable.
4-2-1/1.1	Internal Combustion Engines	To update references to the Exhaust Emission Abatement Guide to Part 6 Chapter 3 of the Marine Vessel Rules.
4-2-2/5.3	Turbochargers	To clarify that other test speeds may be needed to capture the worst case.
4-2-3/7.7.5	Gas Turbines	To specify that the safety devices of gas turbine should also be based upon FMEA.
4-3-1/9.5	Gears	To require manufacturer's records of shrink fitting of pinions/gears/wheel rims on to the shafts to be reviewed for compliance to approved drawings and fitting instructions.
4-3-2/7.3.2(a)vi	Propulsion Shafting	To add a commentary for the definition of relative misalignment slope.
4-3-4/9.1.3 & Table 1	Steering Gears	To replace the word "Hydraulic Lock" with "Hydraulic Locking" and add definition for Hydraulic Locking.
4-3-5/13.1	Thrusters	To clarify the requirement of testing of the thrusters as an assembly.
4-3-9/5.17.2	Contra-Rotating Propellers	To address provisions or recommendations regarding EALs because of their widespread use/adoption.
4-4-1/1.9, 13.5 & 7.3	Boilers and Pressure Vessels and Fired Equipment	To clarify the requirement that welding procedures are to be submitted to ABS Materials Group for engineering review.
4-6-1/9.1	General Provisions	To update references to the Exhaust Emission Abatement Guide to Part 6 Chapter 3 of the Marine Vessel Rules.

Part/Para. No.	*Title/Subject*	*Status/Remarks*
4-6-1/Table 1, 7.3	General Provisions	To clarify that unit certification is not required for engine attached high pressure fuel pumps and are to be tested as per 4-2-1/Table 6 and 4-2-1/Table 7.
4-6-2/5.5.3	Metallic Piping	To align with IACS UR P2, to consider sleeve connections made of stainless steel in case crevice corrosion is prevented with selected material, and to consider the industry practice applying sleeve connection of stainless steel for NaOH pipe.
4-6-5/11.1, 11.15	Piping Systems for Internal Combustion Engines	To update references to the Exhaust Emission Abatement Guide to Part 6 Chapter 3 of the Marine Vessel Rules.
4-6-5/13.3.2 ii)	Piping Systems for Internal Combustion Engines	To specify that where the engine OEM agrees with such installation with an engineering justification, the crankcase vent manifold may be installed on the main deck.
4-8-1/5.5.5	General Provisions	To specify that the semiconductor converters for adjustable speed motor drives for essential services are also to be reviewed.
4-8-2/3.9	System Design	To revise 4-8-2/3.9 so that it is only applicable to >500GT vessels certificated for international voyages.
4-8-2/7.7.2	System Design	To reference the minimum conductor size requirements of 4-8-3/9.4.
4-8-2/11.7.1(f)	System Design	To keep the minimum sound pressure level consistent with 7.2 of LSA Code and to clarify that other strategic points are taken to mean the location from where emergency situations are intended to be controlled and the general alarm system can be activated, in line with MSC/Circ.887.
4-8-2/11.7.1(g) and 4-8-2/ 11.8.1(iii)	System Design	To keep the minimum sound pressure level consistent with 7.2 of LSA Code.
4-8-3/9.4	Electrical Equipment	To incorporate the applicable requirements from 4-8-2/7.7.2 of current MVR.
4-9-6/21.7	ACCU Notation	To specify the required number of additional portable fire extinguishers for the ACCU notation.
4-9-6/Table 1A, 1B, 3, 4B, 5B, 6	ACCU Notation	To provide relaxation of F.O. temperature requirements for main engines using a single fuel of distillate oil and other low flash point fuel.
PART 5C	**Specific Vessel Types**	
5C-1-7/1.1.2, 35	Cargo Oil and Associated Systems	To incorporate the Guide for Enhanced Cargo Tank Cleaning into the Marine Vessel Rules to promote the Guide requirements to Rules.
5C-5-4/1	Initial Scantling Criteria	To further clarify that for container vessels throughout the ship length, the hull girder strength in 5C-5-4/3 & 4 need not exceed those in Appendix 5C-5-4a (IACS UR S11A) to reflect the practice in ABS review and industry design.
5C-5-7/3.1	Cargo Safety	To refer to relevant requirements for the fixed gas fire extinguishing system in cargo spaces carrying or not carrying dangerous goods.
5C-8-4/23.3 (ABS)	Cargo Containment	To specify that when performing calculations, the “typical” consumable properties provided by manufacturers are not to be applied, but the minimum specified properties of the weld consumable as per the AWS specification are to be considered.
5C-8-5/4.4, 13.2.4 (IACS)	Process Pressure Vessels and Liquid, Vapour, and Pressure Piping Systems	To implement IACS UI GC32, Rev. 1.
5C-8-9/5	Cargo Containment System Atmosphere Control	To add the ABS interpretation written in MVR 5C-13-6/14.5 for the installation of the inert gas generator in the engine room into MVR 5C-8-13/6.4.1.
5C-8-A7/1.3.2	Dual Fuel Diesel and Single Gas Fuel Engines (ABS)	To specify that where multiple propulsion and/or auxiliary dual fuel engines are fitted onboard, each engine fitted with only one ventilation fan for each GVU enclosure and the annular space of double wall pipes for gas fuel supply may be accepted, provided the arrangements are such that upon failure of any one of ventilation fans, the propulsion and maneuvering capability, together with power for essential services, can be maintained.

Part/Para. No.	*Title/Subject*	*Status/Remarks*
5C-9-1/1.3	General (ABS)	To provide a reference to the requirements for the optional "ECTC" notation.
5C-13-6/4.15.3.3 (ABS)	Fuel Containment System	To specify that when performing calculations, the “typical” consumable properties provided by manufacturers are not to be applied, but the minimum specified properties of the weld consumable as per the AWS specification are to be considered.
PART 5D	**Offshore Support Vessels for Specialized Services**	
5D-12-1/9	General	To add Hazardous Area Plan and monitors and to specify additional submissions for the Well Test notation.
5D-12-2/1 and 17	Well Test Ready	To clarify installation requirement and scope of review during installation on board, to limit the requirements of WT-READY for future installation of well test equipment and systems with less stringent requirements, to clarify that either Water spray or monitors will meet class requirements, to remove section which furthers refer to Facilities Rules as applicable to Well test notations and to limit the requirement from the Facilities Rules for without well test notations.
5D-12-4/1 and 9	Permanent Well Test Systems	To address the possibility of WT-READY notation for units previously assigned with Well Test notation and WT-READY possibility for future Well Test notations and to clarify firefighting requirement for units assigned with Well Test notations.
5D-13-5/5.3	Towing Gear	To bring the loads applied to towing fitting in alignment with the supporting structures.
PART 6	**Specialized Items and Systems**	
6-2-1/7.1.4	General	To revise the notation "+IRCC" in 6-2-1/7.1.4 to "+IRCC-SP xxx/xx", Since the compliance of ABS Guide for Carriage of Integral Refrigerated Containers on Board Ships is only required for +IRCC-SP xxx/xx notation.
6-3-1	General	To incorporate the Guide for Exhaust Emission Abatement into the Marine Vessel Rules to promote the Guide requirements to Rules.
6-3-1/Table 1	General	To include requirements of IACS UR M81 (Jan. 2021) "Safety measures against chemical treatment fluids used for exhaust gas cleaning systems and the residues which have hazardous properties".
6-3-2	EGC – SOx Scrubbers	To incorporate the Guide for Exhaust Emission Abatement into the Marine Vessel Rules to promote the Guide requirements to Rules.
6-3-2/11.5, 11.7, 17.5vii)	EGC – SOx Scrubbers	To include requirements of IACS UR M81 (Jan. 2021) "Safety measures against chemical treatment fluids used for exhaust gas cleaning systems and the residues which have hazardous properties".
6-3-3	EGC – Selective Catalytic Reduction Systems	To incorporate the Guide for Exhaust Emission Abatement into the Marine Vessel Rules to promote the Guide requirements to Rules.
6-3-4	EGC – Exhaust Gas Recirculation Systems	To incorporate the Guide for Exhaust Emission Abatement into the Marine Vessel Rules to promote the Guide requirements to Rules.
6-3-5	Exhaust Emission Monitoring Systems	To incorporate the Guide for Exhaust Emission Abatement into the Marine Vessel Rules to promote the Guide requirements to Rules.
6-4-1	General	To incorporate the Guide for High Voltage Shore Connection into the Marine Vessel Rules to promote the Guide requirements to Rules.
6-4-2	System Design	To incorporate the Guide for High Voltage Shore Connection into the Marine Vessel Rules to promote the Guide requirements to Rules.
6-4-3	Equipment Design	To incorporate the Guide for High Voltage Shore Connection into the Marine Vessel Rules to promote the Guide requirements to Rules.
6-4-4	Installations	To incorporate the Guide for High Voltage Shore Connection into the Marine Vessel Rules to promote the Guide requirements to Rules.
6-4-5	Tests	To incorporate the Guide for High Voltage Shore Connection into the Marine Vessel Rules to promote the Guide requirements to Rules.

Part 7 "Rules for Survey After Construction"

The reference date which is indicated in the parentheses following the title of the requirement in this Part is the date that the requirement becomes effective [e.g., 7-1-1/1.1, 1.3 "General Information" (2023) is to apply for vessels undergoing survey on or after 1 January 2023].

EFFECTIVE DATE 1 January 2023 – shown as *(2023)*

Part/Para. No.	*Title/Subject*	*Status/Remarks*
PART 7	**Rules for Survey After Construction**	
7-1-1/1.1, 1.3	General Information	To change the reference in line with the "Guide for Building and Classing Yachts" being promoted to Rules.
7-3-2/5.14.5(a)	Vessels for Unrestricted Service	To change Thickness Measurement requirements for ESP Double Hull Oil Tankers over 400 ft in accordance with IMO Res. MSC.483(103)
7-3-2/5.21.5(a)	Vessels for Unrestricted Service	To incorporate changes to IACS UR Z10.3 Table II.
7-6-2/1.17, 3.13	Survey Requirements	To add survey requirements from the ABS Guide for Exhaust Emission Abatement to Annual Machinery Survey section when EGC systems are installed and EGC Notations are not requested.
7-9-19/1.1, 3.1, 5.1	Yachts	To change the reference in line with the "Guide for Building and Classing Yachts" being promoted to Rules.
7-9-38	Autonomous and Remote Control Functions	To relocate Annual and Special Periodical Surveys requirements from the Autonomous Guide to Survey 7-9-38.
7-9-41/3, 5, 7	Means of Access to Tanks and Holds for Inspection	To require examination of permanent means of access for any tanks entered during an Annual, Intermediate, or Special Survey.
7-9-47/5	Underwater Noise, External Airborne Noise, and Vibration of Machinery, Equipment, and Related Structures	To provide survey requirements for the VIB-M notation, in line with the new Guide for Ship Vibration.
7-9-48	Sustainability Notations	To relocate survey after construction requirements from the Guide for Sustainability Notations into Part 7.
7-A1-11/5.11	Repair and Cladding of Shafts	To add welder qualification requirements for tailshaft weld repair.
7-A1-14	Surveys Based on Preventative Maintenance Techniques	To add Annual Survey Requirements for RCM from the ABS Guide for Surveys Based on Machinery Reliability and Maintenance Techniques, to include requirements of 7-A1-14/17.5.1 for main engine bearings in Table 1, and change RTM to CBM.
7-A1-16/Table 10	Thickness Measurement and Close-up Survey Requirements at Special Periodical Surveys	To change Thickness Measurement requirements for ESP Double Hull Oil Tankers over 400 ft in accordance with IMO Res. MSC.483(103).
7-A1-16/Table 16	Thickness Measurement and Close-up Survey Requirements at Special Periodical Surveys	To incorporate changes to IACS UR Z10.3 Table II.