

Rules for Building and Classing

Marine Vessels

Notices and General Information



July 2024



RULES FOR BUILDING AND CLASSING

MARINE VESSELS JULY 2024

NOTICES AND GENERAL INFORMATION

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

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Notices and General Information

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Notices and General Information

Introduction

1. The 2024 edition of the *Rules for Building and Classing Marine Vessels* has undergone a major update to improve the clarity and ease of use of the Rules:
 - a) A goal-based standards approach has been introduced as an alternative path to compliance appropriate for novel concepts, new technologies, and alternative arrangements.
 - b) Non-mandatory guidance has been added as Commentaries within the text of the Rules.
 - c) Notations have been clearly indicated as mandatory or optional.The same updates have also been made to the generic Parts 1A, 2, and 7.
2. The 2024 edition of the *Rules for Building and Classing Marine Vessels* consists of the Parts 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 1A)* is to reflect the expanded contents of PART 1A, 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 1A. The supplemental requirements previously contained in individual Rules and Guides have been consolidated into Chapters of Part 1A.
 - b) The purpose of the generic *ABS Rules for Alternative Arrangements, Novel Concepts and New Technologies (Part 1D)* is to introduce a procedure for acceptance of alternative arrangements, novel concepts, and new technologies based on Goals and Functional Requirements, including a consolidated list of Tier 1 Goals.
 - c) 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.
 - d) 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 January 2023 Rules are identified and listed in Table 3. The effective date of the indicated Rule Changes is 1 July 2024, 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 22: Passenger Vessels, Liquefied Gas Carriers, Chemical Carriers, Vessels Intended to Carry Vehicles, Vessels Intended to Carry Liquid Cargoes in Bulk (other than Oil or Chemical), 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, Box-Shaped Bulk Carriers, General Dry Cargo Vessels, Heavy Lift Ships, and Anchor Handling Vessels.

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 1, Section 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 2, Section 3, 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:

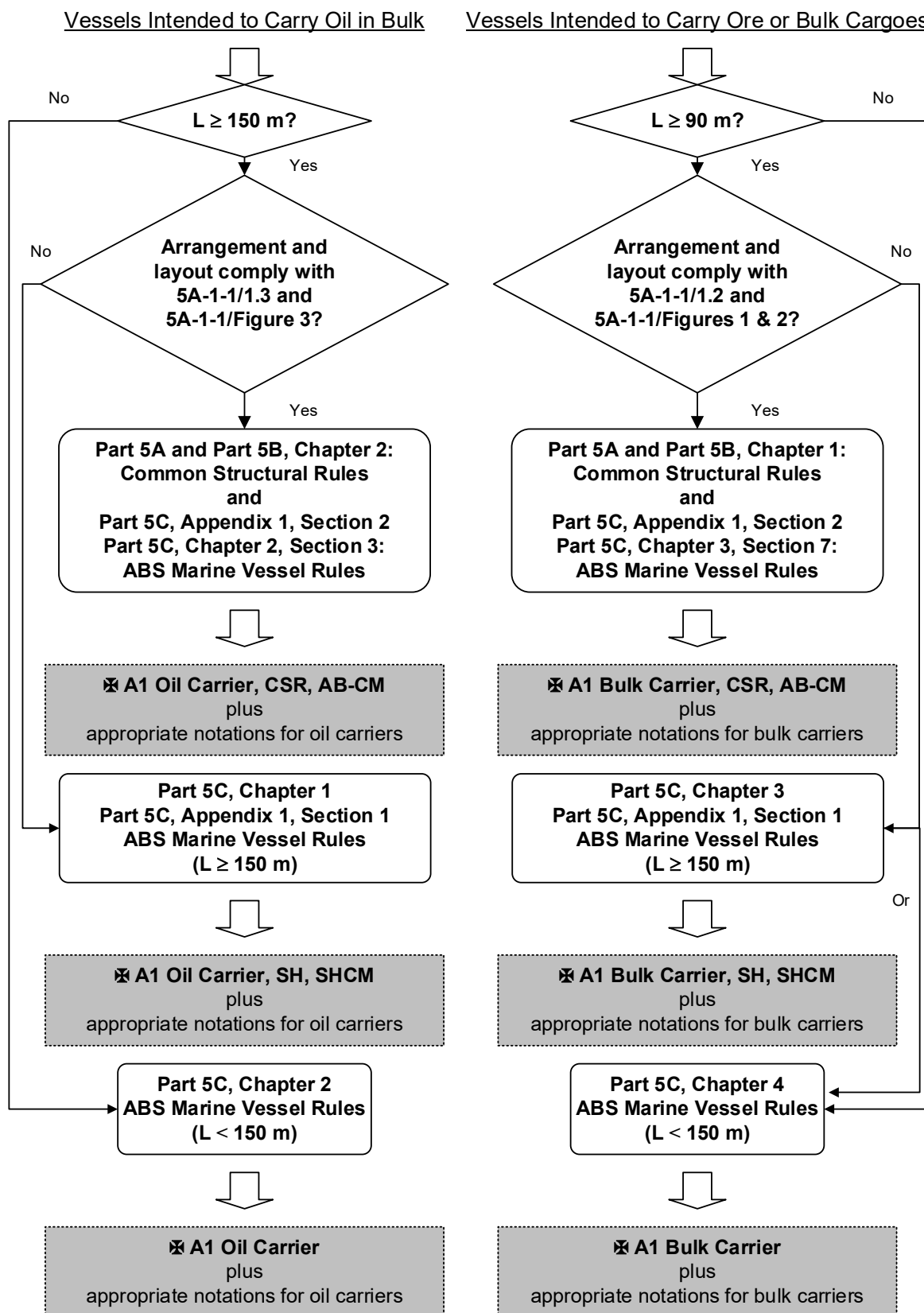


TABLE 1
Applicable Editions of Parts Comprising July 2024 Marine Vessel Rules

Notices and General Information		July 2024
Part 1A:	Rules for Conditions of Classification	July 2024
Part 1D:	Rules for Alternative Arrangements, Novel Concepts and New Technologies	January 2024
Part 2:	Rules for Materials and Welding Rules for Testing and Certification of Materials Rules for Welding and Fabrication	July 2024
Part 3:	Hull Construction and Equipment	July 2024
Part 4:	Vessel Systems and Machinery	July 2024
Part 5A:	Specific Vessel Types General Hull Requirements (IACS CSR Part 1)	July 2024
Part 5B:	Specific Vessel Types Ship Types (IACS CSR Part 2)	July 2024
Part 5C:	Specific Vessel Types Chapter 1 General Hull Requirements for SafeHull Vessels (New) Chapter 2 Oil Carriers Chapter 3 & 4 Bulk Carriers Chapter 5 & 6 Container Carriers	July 2024
Part 5C:	Specific Vessel Types Chapter 7 Passenger Carriers Chapter 8 Liquefied Gas Carriers Chapter 9 Chemical Carriers Chapter 10 Vehicle Carriers Chapter 11 Vessels Intended to Carry Liquid Cargoes in Bulk (other than Oil or Chemical) Chapter 12 Liquefied Gas Carrier with Membrane Tanks Chapter 13 Vessels Using Gases or other Low-Flashpoint Fuels Chapter 14 Fire Fighting Vessels Chapter 15 Oil Recovery Vessels Chapter 16 Escort Vessels Chapter 17 Vessels Under 90m (295 ft) Intended for Towing Chapter 18 Fishing Vessels Chapter 19 Vessels Intended to Carry Bulk Cargoes without Upper Wing Tanks and Lower Wing Tanks Chapter 20 General Dry Cargo Vessels Chapter 21 Heavy Lift Ships Chapter 22 Anchor Handling Vessels	July 2024

Part 5D:	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	July 2024
Part 6:	Specialized Items and Systems Chapter 1 Strengthening for Navigation in Ice Chapter 2 Refrigerated Cargo Vessels Chapter 3 Exhaust Emission Abatement Chapter 4 Low and High Voltage Shore Connection Chapter 5 Alternative Fuels (New)	July 2024
Part 7:	Rules for Survey After Construction	July 2024

TABLE 2
Division and Numbering of Rules

<i>Division</i>	<i>Number</i>
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 (1 July 2024)

TABLE 3
Summary of Changes from the January 2024 Rules

EFFECTIVE DATE 1 July 2024 – shown as (1 July 2024)

<i>Part/Para. No.</i>	<i>Title/Subject</i>	<i>Status/Remarks</i>
PART 1A	Rules for Conditions of Classification	
1A-1-2/13	Suspension and Cancellation of Classification (1998)	To provide alternatives for vessels with "Restricted Service".
1A-1-2/7.1	Suspension and Cancellation of Classification (1998)	To clarify that any statutory certificates issued to a facility by ABS are invalidated and no longer supported when class is suspended.
1A-1-7/9	Submission of Plans	To add clarification and commentary to asbestos free declaration in line with current ABS practice.
1A-1-8/5	Conditions for Surveys After Construction	To clarify that a vessel owner is to contact ABS in the event of their craft being boarded by a Port State authority or Flag State administration resulting in a detention or found deficiencies that affect class or statutory certificates issued by ABS.
1A-1-A3/5.5	ABS Type Approval Program	To replace final approval by the Manager of the Type Approval Program with local area operations manager, since Operations will take the responsibility in issuing PQA certificates and letters to clients per the updated ABS practice.

EFFECTIVE DATE 1 July 2024 – shown as (1 July 2024)
(based on the date of purchase order of the materials)

<i>Part/Para. No.</i>	<i>Title/Subject</i>	<i>Status/Remarks</i>
PART 2	Materials and Welding	
2-3-13/27	Piping, Valves and Fittings for Low-Temperature Service [Below -18°C (0°F)]	To update 2-3-13/27 Piping, Valves and Fittings for Low-temperature service [Below -18°C (0°F)] - Witnessed Tests, in line with updates to MVR 4-1-1/Table 6.
2-3-7A1/3.1, 3.7	Repair and Cladding of Shafts	To provide requirements for rudder repair without welding of rudder/stock shaft not fitted with a liner, in line with MVR 3-2-14/15.1.6.

EFFECTIVE DATE 1 July 2024 – shown as (1 July 2024)
(based on the contract date for new construction between builder and Owner)

<i>Part/Para. No.</i>	<i>Title/Subject</i>	<i>Status/Remarks</i>
PART 3	Hull Construction and Equipment	
3-2-7/4.7.2	Beams and Longitudinals	To align with latest CSR and IACS UR A2 Rev.5.
3-2-11/3.3.2	Superstructures, Deckhouses and Helicopter Decks	To reduce the minimum plate thickness for ships of less than 65m in length, inline with IACS UR S3 rev.2.
3-2-14/3.1, 7.3, 7.5, 11.5, 13.3.2, 13.3.3, Figure 4C, 15.1.1, 15.1.6, 17.3, 17.9, Figure 9A	Rudders and Steering Equipment	To reflect IACS UR S10 rev. 7.
3-2-15/9, 13	Protection of Deck Openings	To reflect IACS UR S21 rev. 6 and S26 rev.5.
3-2-20/9.1	Guidance on Finite Element Analysis	To add guidance on how to evaluate working stress to the Commentary.

<i>Part/Para. No.</i>	<i>Title/Subject</i>	<i>Status/Remarks</i>
3-2-A5/3.1.2, 3.1.3	Guidelines for Calculating Bending Moment and Shear Force in Rudders and Rudder Stocks	To reflect IACS UR S10 rev.7.
3-2-A8 (New)	Buckling Strength Assessment of Ship Structural Elements	To include UR S35 as MVR 3-2-A8.
3-5-1/3.1, 11.3, Table 1A, Table 1B	Anchoring, Mooring, and Towing Equipment	To reflect IACS UR A1 rev. 8 and Rec. 10 rev.5.
3-7-1/1	Tank, Bulkhead and Rudder Tightness Testing	To specify "tightness" (i.e., fuel/lo tanks) and add definitions of watertight and weathertight in line with MVR 3-1-1/31 & 33.
PART 4	Vessel Systems and Machinery	
4-1-1/9	Classification of Machinery	To bring published Rules in line with current practice for multiple drives which include azimuthing thrusters as well as tunnel thrusters providing lateral thrust.
4-1-1/Table 6	Classification of Machinery	To update MVR 4-1-1/Table 6 due to inconsistency and ambiguity in ABS rule requirements for pipe fittings.
4-2-1/Table 4, Table 5 and Table 6 Note 3	Internal Combustion Engines	To update based on UR M72 REV.3 (APRIL 2023) and to add superscripted numbers in Tables 4, 5, 6 to match the footnotes.
4-2-1A8/7.5	Guidance for Evaluation of Fatigue Tests	To update text for the equations for stress at the crankpin and journal needed to be updated to clarify that they are done at the fillet, based on IACS UR M53 REV.5 MAY 2023.
4-2-2/5.3, 5.7	Turbochargers	To update based on IACS UR M73. REV.2 MAY 2023 and to add additional guidelines for containment test.
4-3-2/7.3.3iv)	Propulsion Shafting - Aft S/T Bearing Length Definition Clarification	To clarify how the definition for L (length) under 4-3-2/7.3.3iv) should be interpreted.
4-3-2/8, 16	Propulsion Shafting	To provide references to the ESA Guide and Requirements for Sterntubeless vessels with Water Lubricated Bearings in 4-3-2/8 and 16.
4-4-1/1.1, 1.3.1, 1.3.3, 18	Boilers and Pressure Vessels and Fired Equipment	To include diesel oil fired air-heating furnaces used on the Great Lakes during winter lay-up periods in accordance with NTSB Report MIR-22/19, Recommendation M-22-2 and to update the definitions of "Design Pressure" and "Design Temperature".
4-6-1/3.19, Table 2	General Provisions	To be in line with MVR 4-1-1/Table 6 and to update the definition of "Maximum Allowable Working Pressure" in 4-6-1/3.19 to be in line with other ABS publications.
4-6-2/9.13.2 ii	Metallic Piping	To clarify that butterfly valves with threaded lugs are acceptable means for shell valves where the inboard pipe can be removed for maintenance while in service.
4-6-3/TABLE 3	Plastic Piping	To update based on IACS Rec.86 Rev.2 (March 2019).
4-6-4/13.5.1	Ship Piping Systems and Tanks	To add a footnote to clarify that any fuel oil which requires post service tank heating to achieve the required injection viscosity is not to be regarded as MDO in the context of these examples shown, based on IACS UI SC123 REV.5 (JULY 2023), and to provide clarification to the term "short length".
4-6-7/7.5.4,13	Other Piping Systems	To provide details on pressure relief devices mounted on the gas piping system to protect the cylinder against rupture in the event of overpressure due to thermal exposure, to add Goal Based Standards and other clarifications, and to add definition for Stand-alone unit as per ENVIRO notation.
4-7-1/9, 11.9, 11.19	General Provisions	To add an amendment for the first footnote of Reg. II-2/15.2.4 of SOLAS (Adding IMO Resolution A.1116(30) for the preparation of the shipboard fire control plans) and to update the definition of "Cargo Spaces" and "Oil Fuel Unit "in 4-7-1/11.9 and 4-7-1/11.19, in line with other ABS publications.
4-8-2/1,11.1	System Design	To delete the requirements for LVSC & HVSC in MVR 4-8-2 are deleted and add a cross-reference to MVR 6-4 for LVSC & HVSC.

<i>Part/Para. No.</i>	<i>Title/Subject</i>	<i>Status/Remarks</i>
4-8-4/17	Shipboard Installation and Tests	To provide acceptance criteria for use of flexible cables serving portable apparatus in hazardous areas.
4-9-1/5.1.14	General Provisions	To update the definition for “unmanned propulsion machinery space” for clarity and to prevent confusion by indicating “centralized control station” in the definition as it is dependent of the notations requested.
4-9-3	Computer-based Systems	To include Testing, Inspection, and Certification of Computer-Based Systems, to match the current ABS Type approval format in other sections to update most of the documents requested 'for Information upon request' to 'for information' for CBS Cat II, III Systems for consistent application of the Rules, and to update 'approval' documents to 'approval/review' to match current ABS stamping practice.
4-9-9/1,13,15	Equipment	To add a cross-reference to MVR 4-9-3 and MVR 4-9-14 for equipment-related computer-based system and cyber resilience requirements.
4-9-10/5	Installation, Tests and Trials	To add test requirements for computer-based systems and cyber resilience based on IACS UR E22, rev.3, UR E27, rev.1 to MVR 4-9-10/5.1, 5.2.
4-9-13	Cyber Resilience for Vessels	To incorporate IACS UR E26, rev.1 into a new Section 4-9-13.
4-9-13A1	Overview of Requirements	To provide an overview of the requirements in Section 4-9-13 with the applicable functional elements and phases for each.
4-9-13A2	Summary Table of Requirements and Documents	To provide a summary of requirements and documents required by Section 4-9-13, in line with Appendix II of IACS UR E26, Rev.1..
4-9-14	Cyber Resilience for On-board Systems and Equipment	To incorporate IACS UR E27, rev.1 into a new Section 4-9-14.
PART 5C	Specific Vessel Types	
5C-1 (Whole Chapter)	General Hull Requirements for SafeHull Vessels	Reorganize 5C-1, 5C-3, 5C-5 and 5C-12 to consolidate common text and reorganize like CSR. Add goals and functional requirements and make the following technical changes: <ol style="list-style-type: none"> 1. Adopt CSR FE Modelling Convention 2. Bow Impact FEA 3. Define the Load Calculation Point (LCP) and adopt elementary plate panel (EPP) 4. Clarify Fatigue Procedure & Fatigue Life Formula 5. Curved Panel Buckling 6. Address Asymmetric Loads 7. Buckling of Panels with Openings 8. Buckling of Irregular Panels 9. Idealization of Bulb Plates
5C-2-1/1.3,1.5	Introduction	To clarify the application of MVR Part 5C, Chapter 2 to oil tankers of length 150 m or grater with structural arrangements not covered by 5A-1-1/1.3 and length less than 150 m.
5C-2-3/1.3.7, 3.3.1(k), 31.15.5	Cargo Oil and Associated Systems	To provide clarification and commentary for alternative means to meet the intent of the Rule (Based on OCIMF document in original Rule change) and to clarify the definition of "cargo area" and align with definition in 7-1-1/3.15.
5C-3 (Whole Chapter)	Vessels Intended to Carry Ore or Bulk Cargoes (150 meters (492 feet) or more in Length)	Reorganize 5C-1, 5C-3, 5C-5 and 5C-12 to consolidate common text and reorganize like CSR. Add goals and functional requirements and make the following technical changes: <ol style="list-style-type: none"> 1. Direct engineering analysis for BC-A, BC-B or BC-C notations 2. Delete OBO notations and relevant definitions 3. Define the Load Calculation Point (LCP) and adopt elementary plate panel (EPP) 4. Address Asymmetric Loads
5C-3-4/19	Initial Scantling Criteria	To reflect IACS UR S21 rev.6 for buckling strength of hatch cover structures.

<i>Part/Para. No.</i>	<i>Title/Subject</i>	<i>Status/Remarks</i>
5C-3-A7/5.5	Hull Girder Ultimate Strength Assessment of Bulk Carriers (2013)	To clarify that, in case of an asymmetric hull transverse section design, the rotation of horizontal neutral axis does not need to be taken into account.
5C-5 (Whole Chapter)	Vessels Intended to Carry Containers (130 meters (427 feet) to 450 meters (1476 feet) in Length)	Reorganize 5C-1, 5C-3, 5C-5 and 5C-12 to consolidate common text and reorganize like CSR. Add goals and functional requirements and make the following technical changes: 1. Publish Containership TSA Load Balancing Procedure 2. Container Structure Reduction beyond 0.4L 3. Define the Load Calculation Point (LCP) and adopt elementary plate panel (EPP) 4. Address Asymmetric Loads
5C-5-2/Figure 1, Table 1	Design Considerations and General Requirements	To update design corrosion value for watertight bottom girder as pipe duct space to 1.5mm.
5C-5-6/1.3	Hull Structure Beyond 0.4L Amidships	To include the requirements for Main Supporting Members and Fuel Oil Tank Tops, which may be also determined in accordance with the requirement within 0.4L amidships, similar to the Plating and Stiffeners of Transverse Bulkhead.
5C-5-7/3.3	Cargo Safety	To add commentary to consider the inevitable flanged connection of the bilge pipe in the pipe duct.
5C-5-A2d/3.3.1	Hull Girder Ultimate Bending Capacity of Container Carriers	To clarify that, in case of an asymmetric hull transverse section design, the rotation of horizontal neutral axis does not need to be taken into account.
5C-8-1/5	General (ABS) (2016)	To include additional submittal items including details of reinforcement for cargo tank lifting and strength calculation, Cargo Operations Manual and Inspection/survey plan for the liquefied cargo containment system to be in line with the LCO2 Requirements document Section 1/4.
5C-8-16/7.1.4(a)	Use of Cargo as Fuel (2016)	To add reference to 5C-8-A7/3.13 for type test of explosion relief devices in combustion air inlet and exhaust gas manifolds of gas fuel engines.
5C-8-A7/3.1.1(c)(i), 3.3.1(a)i, 3.13 (new) and 7.3.1(c)	Dual Fuel Diesel and Single Gas Fuel Engines (ABS) (2018)	To add new subsection 5C-8-A7/3.13 added, in line with IACS UR M82 (new) published in March 2023 and make editorial changes.
5C-8-A7/3.5.1	Dual Fuel Diesel and Single Gas Fuel Engines (ABS) (2018)	To align with current marine practices and industrial standards and to provide clients with alternative approaches to flame arrestors as prescribed in current Rules.
5C-12 (Whole Chapter)	Liquefied Gas Carriers with Membrane Tanks (2014)	Reorganize 5C-1, 5C-3, 5C-5 and 5C-12 to consolidate common text and reorganize like CSR. Add goals and functional requirements and make the following technical changes: 1. LNG Buckling Capacity Reduction Factor 2. LNG Sloshing Load for TSA 3. LNG Pressure Relief Valve Updates 4. Define the Load Calculation Point (LCP) and adopt elementary plate panel (EPP) 5. Address Asymmetric Loads
5C-12-3/Table 1B	Load Criteria	To clarify that V is to be taken as 10 knots for internal pressure calculation for the additional IGC TSA loading condition for main-supporting member shear check.
5C-13-5/4 and 8	Ship Design and Arrangement	To move mandatory requirements from Commentaries to main text.
5C-13-9/2	Fuel Supply to Consumers	To align with IACS UI GF 19 (NEW) Dec 2023.
5C-13-10/3.1.1(a), 3.1.12, 3.1.13(b)	Power Generation Including Propulsion and other Gas Consumers	To provide clients with other alternative approaches to providing flame arrestors as prescribed in current Rules.

<i>Part/Para. No.</i>	<i>Title/Subject</i>	<i>Status/Remarks</i>
PART 5D	Offshore Support Vessels for Specialized Services	
5D-1-2/5.1.1	Special Purpose	To delete 5D-1-2/5.1.1 for the administration approval of intact stability, in order to avoid confusion.
5D-1-5	Industrial Personnel	To incorporate the new International Code of Safety for Ships Carrying Industrial Personnel (IP Code) by Resolution MSC.527(106) Code into ABS Marine Vessel Rules and propose new IP notation for vessels which comply with IP Code.
PART 6	Specialized Items and Systems	
6-1-1/Table 1	Introduction (2012)	To address feedback that the Baltic ice notations with minimum engine output power specified are too long.
6-1-3	Machinery Requirements for Polar Class Vessels (2012)	To update based on IACS UR I3 REV.2.
6-1-4/3.1	First Year Ice Classes	To address feedback that the Baltic ice notations with minimum engine output power specified are too long.
6-1-5/3iv), Table 1, 9, 17, 19	Requirements for Icebreaker* Notation	To address client feedback and clarify the requirements.
6-3-2/7.15i)	EGC – SOx Scrubbers	To incorporate the deviation in lightweight weights, the longitudinal or vertical position of the center of gravity as interpreted by MSC.1/Circ.1362.Rev.1 and IACS UI SC297.
6-3-2/11.3.3ii)	EGC – SOx Scrubbers	To add alternative arrangements for EGC washwater overboard discharge piping.
6-3-2/11.3.3, 11.5.1 and 11.5.8	EGC – SOx Scrubbers	To update based on IACS UR M81 Rev.1 (July 2023).
6-6-1	General	To relocate requirements for Ballast Water Treatment from ABS BWT Guide to MVR Part 6 Chapter 6 and add new 6-6-1/7.5 and TABLE 1 for minimum requirements when BWT/BWT+ notation is not requested.
6-6-2	System-Related Installation Criteria	To add goal-based standards, commentary and other clarifications, modify ventilation and gas detection requirements in 6-6-2/3.3 to align with the Regulations, update requirement of door and ventilation for hazardous BWMS compartment in 6-6-2/3.4.2 to align with IEC 60092-502, modify Computer-based system requirements on 6-6-2/3.11.3 to align with Section 4-9-3, and delete 6-6-2/17 (Sediment Control) since this item is not a requirement for ballast water treatment and the G2 Guidelines require the information regarding the sediment management and control to be included in the BWMP.
6-6-3	Consideration for Oil, Gas, and Chemical Carriers	To add goal-based standards and other clarifications, delete requirements for Tank Barges in 1.1 since these requirements will be moved to the Barge Rules, and delete the requirements on 6-6-3/3.iii for gas carriers since the leakage to inter-barrier space does not affect gas migration to engine room.
6-6-3-A1	Acceptable Arrangement for Sampling System Piping in Non-Hazardous Area Connected to a BWMS in a Hazardous Area of an Oil or Chemical Tanker	To clarify Appendix 1, add requirement to Item 6 for hazardous area of 3 m from power ventilation outlet of the cabinet to align with the requirements of 4-8-4/27.3.3(a), add requirements for water seal or equivalent in the return line in accordance with IACS UR M74.3.2.4.4, delete requirement for “zero” of valves since these valves are closed when BWTS is not in operation and open when BWTS in in operation, delete requirement for safety valves for the sampling pipe in the hazardous area, since the safety valves in the sampling piping will not function as means of isolation, and delete Figure 2 and updated Figure 1 based on IACS UR M74.
6-6-3-A2	Acceptable Isolation Arrangement of a BWMS Dosing System on Oil or Chemical Tankers (From a Non-hazardous Area to a Hazardous Area)	To clarify Appendix 2 and updated FIGURE 1, add Commentary for alternative arrangements in-lieu of the water seal arrangement shown on FIGURE 1, and delete requirement for “zero” of valves since these valves are closed when BWTS is not in operation and open when BWTS in in operation.

<i>Part/Para. No.</i>	<i>Title/Subject</i>	<i>Status/Remarks</i>
6-6-3-A3	Acceptable Isolation Arrangement of a BWMS Dosing Piping System on Oil or Chemical Tankers (From a Non-hazardous Compartment to a Non-hazardous Area Routed Through a Hazardous Area)	To clarify Appendix 3 and update Figure 1.
6-6-3-A4	BWMS in a Non-hazardous Area	To clarify Appendix 4, delete arrangements and requirements for use of Water Column since it is duplicated from the Loop Seal on 6-6-3-A4/3, and delete requirements on 6-6-3-A4/9, BWMS in the Engine Room Serving a Non-hazardous Aft Peak Tank and Simultaneously Serving Hazardous Ballast Tanks in the Cargo Block.
6-6-3-A5	Additional Arrangements for the Placement of Electrical Equipment in Hazardous Areas	To clarify Appendix 5 and update gas detection requirements in Item 4 to align with the SOLAS requirements.
6-6-4	Operational Management and Survey Requirements	To delete subsection 6-6-4/9.5 for Additional Survey since this requirement is already included in MVR Part 1 and delete Subsections 6-6-4/11, 13 and 15 for BWMP, since the BWMP is a statutory requirement in accordance with G4 Guidelines and MEPC.306(73)

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., 7-2-1/7, 11.1.1 “Vessels for Unrestricted Service” (1 July 2024) is to apply for vessels undergoing survey on or after 1 July 2024].

EFFECTIVE DATE 1 July 2024 – shown as (1 July 2024)

<i>Part/Para. No.</i>	<i>Title/Subject</i>	<i>Status/Remarks</i>
PART 7	Rules for Survey After Construction	
7-1-1/1.7.1(a), 1.3.9 and 3.11	General Information	To align with IACS UR 10.1 (rev.25), 10.2 (rev.37) and Z11 (rev.6).
7-1-1/3.15, 3.37, 19	General Information	To update the definition of "Cargo Area-Tankers" in 7-1-1/3.15 to be in line with other ABS publications, clarify the definition of lightering service in 7-1-1/3.37, and to add Annual Survey, clarifications, and commentary on 7-1-1/19.
7-1-1/3.43	General Information	To update definition of "Oil Carrier – Double Hull" based on IACS Rec 96 (Rev.2).
7-2-1/7, 11.1.1	Vessels for Unrestricted Service	To align with IACS UR Z6 and clarify gauging requirements at the time of drydocking and to clarify the intervals for Drydocking Surveys.
7-2-2/9	Vessels in Great Lakes Service	To clarify that gaugings of underwater portions of the hull are to be taken at the time of drydocking and reference Great Lakes Special Survey requirements as per Section 7-3-3.
7-3-2/1.1.11	Vessels for Unrestricted Service	To include survey requirements that are required for all vessels in MVR 4-6-7/9.3 and add a commentary with what is a helideck, vs. landing area vs. winch only area is.
7-3-2/1.1.22 and 3.1.5	Vessels for Unrestricted Service	To add Annual Survey requirements for vessels on lightering service to clarify Intermediate Survey section for lightering service.
7-3-2/1.7.1(i)	Vessels for Unrestricted Service	To replace "vents" with "air pipes".
7-3-2/1.7.5, 1.19.4, 3.7.2(a) and 3.17.2(a)	Vessels for Unrestricted Service	To change "POOR condition" to "less than GOOD condition" for bulk carrier ballast tanks in line with IACS UR Z10.2 (rev 37).
7-3-2/1.19.4, 5.19.9	Vessels for Unrestricted Service	To incorporate requirements for double skin void spaces bounding cargo holds, per Rev 20 f IACS UR Z10.5.

Notices and General Information

<i>Part/Para. No.</i>	<i>Title/Subject</i>	<i>Status/Remarks</i>
7-3-2/5.13.6(b), 5.14.6(b)	Vessels for Unrestricted Service	To align with IACS UR Z10.4, Rev.18.
7-3-3/7.5	Vessels in Great Lakes Service	To refine the previously proposed requirements for thickness measurements on Great Lakes Bulk Carriers.
7-6-2/1.1.10, 1.1.17, 1.7.1 x), 3.1.2(a), 3.7 (iii)	Survey Requirements	To include survey requirements that are required for all vessels in MVR 4-6-7/9.5, to include survey requirements for that are required for all vessels in MVR 4-6-7/7.3.1, 7.3.2 and 7.3.3 by adding ventilation and electrical installation for gaseous fuel for domestic services, and to make clear the three methods for crediting of main engine bearings.
7-6-2/1.1.19, 1.1.22, 3.15	Survey Requirements	To add requirements for computer-based systems in line with IACS UR E22.
7-6-2/1.7.3, 1.7.4, 1.7.5	Survey Requirements	To add new section (7-6-2/1.7.5) Additional Requirements for Vessels using Methanol and Ethanol as Fuel.
7-6-2/3.1.1(s)	Survey Requirements	To align the survey requirements with the changes to MVR 4-6-7/7.5.4 and address a TOTC comment.
7-6-3/3	Vessels in Great Lakes Service	To add additional survey requirements for oil-fired air furnaces used for heating during winter layups, based on findings from a recent incident
7-9-15/9, 11	Environmental Safety (2011)	To incorporate annual survey requirements in new 7-9-15/9 for EEDI-Ph3 notation and 7-9-15/11 for NOx Tier III Notation..
7-9-16/3.1, 3.2	Crew Habitability on Ships and Workboats (1 July 2015)	To specify the survey requirements for the ERGO TOP, ERGO ES, ERGO VALVE, and ERGO MAINT notations and split the base HAB and HAB(WB) notation requirements from the enhanced "HAB" notations.
7-9-17/3.1, 3.2	Comfort on Ships and Yachts (1 July 2015)	To specify the Special Periodical Survey requirements for the COMF and COMF(Y) notations and split the base notation requirements from the enhanced "COMF" notations.
7-9-20/7	Tailshaft Condition Monitoring (2007)	To include SAC requirements for new notation STBLess-W notation
7-9-25/1, 3	Lithium Batteries (2018)	To reflect the latest revisions to the Lithium-Ion Batteries Guide to lower Battery Capacity limit to 20 kWh from 25 kWh.
7-9-26/3, 3.1	Ballast Water Exchange and Treatment	To update 7-9-26/3 as it still notes the BWT Guide, and need to be updated to applicable section of Part 6-6 Ballast Water Treatment
7-9-34/3	Wind Assisted Propulsion System Installation	To add Annual and Special survey requirements for Hybrid and All-Electric Power Systems based on the PRCs to Hybrid and All Electric Power System Requirements.
7-9-45/ 1.1.1(a)xiv), 1.7.1, 3, 5	Lifting Appliances	To add a reference to the Lifting Appliance Guide for details of the crane capacity rating chart, revised the verbiage to clarify that the repair procedures are to be submitted for review and approval before the commencement of repairs, delete "on Great Lakes Vessels" in title of 7-9-45/5 and add "Great Lakes" in title of 7-9-45/5.3.5 in line with upcoming update to Lifting Appliances Guide.
7-9-47/1	Underwater Noise and External Airborne Noise	To add the new UWN (AL) and UWN (AT) notations and minor editorials.
7-9-57 (New)	International Naval Ships Optional Notations	To relocate survey requirements from he ABS Guide for Building and Classing International Naval Ships into Part 7.
7-9-58 (New)	Vessels Navigating in Ice	To add survey requirements for Vessels Navigating in Ice.
7-11-3/1, 1.4, 1.7, 1.9, 1.11, 1.13, 1.15, 1.17, 11, 13	Annual Surveys	To update survey Requirements based on Rule Changes to the Underwater Vehicles Rules.
7-A1-9/7	Reporting Principles for ESP Vessels	To align with IACS UR Z10.4, Rev.18 and UR Z10.5, Rev.20.
7-A1-14/Table 1	Surveys Based on Preventative Maintenance Techniques	To clarify that Main Engine Bearings should be fitted with Bearing Wear Monitoring System in order to be added in PMP.