

Amendment to IMO Guidelines for Selective Catalytic Reduction Systems

Object of Amendment

Guidance for Marine Pollution Prevention Systems
Guidance for Marine Engine Emission Verification

Reason for Amendment

As a measure to comply with regulation 13 of MARPOL Annex VI which regulates the emission of nitrogen oxides (NO_x) from ships, the use of selective catalytic reduction systems (SCR) is permitted. The Society has stipulated rational requirements of SCR systems in the rules.

At the 83rd session of the Marine Environment Protection Committee (MEPC 83), revised SCR Guidelines were adopted as IMO resolution MEPC.399(83), aiming to enable a more quantitative assessment of catalyst degradation in SCR systems for ships in service.

In accordance with MEPC.399(83), the reference number of the IMO resolution cited in the relevant requirements are updated accordingly.

Outline of the Amendment

Amends relevant requirements in the Guidelines for Marine Pollution Prevention Systems and the Guidance for Marine Engine Emission Verification to change the resolution number in references to SCR Guidelines to MEPC.399(83).

Effective Date and application

This amendment applies to the following SCR:

- (a) Installed on ships the keels of which are laid or which are at an similar stage of construction on or after 1 November 2025.
- (b) For ships other than those described in (a), SCR systems for which the date of contract for delivery is on or after 1 May 2026 or for which, in the absence of a contract for delivery, the date of actual delivery is on or after 1 May 2026.

ID:DD25-10

Amended-Original Requirements Comparison Table (Amendment to IMO Guidelines for Selective Catalytic Reduction Systems)

Amended	Original	Remarks
GUIDANCE FOR MARINE POLLUTION PREVENTION SYSTEMS Part 2 SURVEYS Chapter 2 REGISTRATION SURVEYS 2.1 Registration Surveys during Construction 2.1.4 Inspections of Construction and Equipment 10 The wording “standard deemed appropriate by the Society” in 2.1.4-5(3)(b), Part 2 of the Rules means Section 7 of <i>IMO</i> resolution <i>MEPC.399(83)</i>, as amended, or others deemed appropriate by the Administration taking into account this resolution.	GUIDANCE FOR MARINE POLLUTION PREVENTION SYSTEMS Part 2 SURVEYS Chapter 2 REGISTRATION SURVEYS 2.1 Registration Surveys during Construction 2.1.4 Inspections of Construction and Equipment 10 The wording “standard deemed appropriate by the Society” in 2.1.4-5(3)(b), Part 2 of the Rules means Section 7 of <i>IMO</i> resolution <i>MEPC.291(71)</i>, as amended, or others deemed appropriate by the Administration taking into account this resolution.	MEPC.399(83) 2025 GUIDELINES ON SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEMS

Amended-Original Requirements Comparison Table (Amendment to IMO Guidelines for Selective Catalytic Reduction Systems)

Amended	Original	Remarks
Part 8 EQUIPMENT FOR THE PREVENTION OF AIR POLLUTION FROM SHIPS Chapter 1 GENERAL 1.1 General 1.1.2 Terminology (<i>Regulation 2, 13, 14 and 16 of Annex VI and 1.3, 4.1, 4.3.9 and 4.4.8 of NO_x Technical Code</i>) 1 In applying 1.1.2(1), Part 8 of the Rules, IMO resolution <u>MEPC.399(83)</u> as amended is to be applied in case of diesel engines fitted with selective catalytic reduction systems. In applying the IMO resolution and the “<i>NO_x Technical Code</i>”, the IACS MPC series unified interpretations (MPC30(Rev.1), MPC58(Rev.1), MPC59(Rev.1), MPC74(Rev.1), MPC77(Rev.1), MPC106, MPC112(Rev.1), MPC115(Rev.1), MPC116(Rev.1) and MPC125(Rev.1)) related thereto are also to be applied.	Part 8 EQUIPMENT FOR THE PREVENTION OF AIR POLLUTION FROM SHIPS Chapter 1 GENERAL 1.1 General 1.1.2 Terminology (<i>Regulation 2, 13, 14 and 16 of Annex VI and 1.3, 4.1, 4.3.9 and 4.4.8 of NO_x Technical Code</i>) 1 In applying 1.1.2(1), Part 8 of the Rules, IMO resolution <u>MEPC.291(71)</u> as amended is to be applied in case of diesel engines fitted with selective catalytic reduction systems. In applying the IMO resolution and the “<i>NO_x Technical Code</i>”, the IACS MPC series unified interpretations (MPC30(Rev.1), MPC58(Rev.1), MPC59(Rev.1), MPC74(Rev.1), MPC77(Rev.1), MPC106, MPC112(Rev.1), MPC115(Rev.1), MPC116(Rev.1) and MPC125(Rev.1)) related thereto are also to be applied.	

Amended-Original Requirements Comparison Table (Amendment to IMO Guidelines for Selective Catalytic Reduction Systems)

Amended	Original	Remarks
Chapter 2 EQUIPMENT FOR THE PREVENTION OF AIR POLLUTION FROM SHIPS 2.1 Nitrogen Oxides (NO_x) (<i>Regulation 13 of Annex VI</i>) 2.1.2 Requirements for Installation 2 The wording “procedures specified otherwise by the Society” in 2.1.2-2(2), Part 8 of the Rules means those listed below. (1) Measurement procedures for emission verification on a test bed The procedures are to be in accordance with Chapter 5 of the <i>NO_x Technical Code</i>. In addition to Chapter 5, procedures for diesel engines fitted with selective catalytic reduction systems are to be in accordance with <i>IMO</i> resolution <i>MEPC.399(83)</i> as amended. In applying the resolution and the <i>NO_x Technical Code</i> referred to in the resolution, IACS MPC series unified interpretations related thereto are also to be applied. ((2) and (3) are omitted.)	Chapter 2 EQUIPMENT FOR THE PREVENTION OF AIR POLLUTION FROM SHIPS 2.1 Nitrogen Oxides (NO_x) (<i>Regulation 13 of Annex VI</i>) 2.1.2 Requirements for Installation 2 The wording “procedures specified otherwise by the Society” in 2.1.2-2(2), Part 8 of the Rules means those listed below. (1) Measurement procedures for emission verification on a test bed The procedures are to be in accordance with Chapter 5 of the <i>NO_x Technical Code</i>. In addition to Chapter 5, procedures for diesel engines fitted with selective catalytic reduction systems are to be in accordance with <i>IMO</i> resolution <i>MEPC.291(71)</i> as amended. In applying the resolution and the <i>NO_x Technical Code</i> referred to in the resolution, IACS MPC series unified interpretations related thereto are also to be applied. ((2) and (3) are omitted.)	

Amended-Original Requirements Comparison Table (Amendment to IMO Guidelines for Selective Catalytic Reduction Systems)

Amended	Original	Remarks
GUIDANCE FOR MARINE ENGINE EMISSION VERIFICATION Chapter 1 GENERAL RULES 1.2 Definition 1.2.1 Terms 1 In applying 1.2.1(3) of the Rules, the procedures for engines fitted with selective catalytic reduction systems are also to be in accordance with <i>IMO</i> resolution <i>MEPC.399(83)</i>, as amended. In applying the resolution and the <i>NOx Technical Code</i> referred to in the resolution, IACS MPC series unified interpretations (MPC30(Rev.1), MPC58(Rev.1), MPC59(Rev.1), MPC74(Rev.1), MPC77(Rev.1), MPC106, MPC112(Rev.1), MPC115(Rev.1), MPC116(Rev.1) and MPC125(Rev.1)) related thereto are also to be applied. Chapter 2 EMISSION VERIFICATION, ETC. 2.1 Application for Emission Verification, etc. 2.1.1 Application for Emission Verification, etc. 1 For engines fitted with selective catalytic reduction systems, the “other documents considered necessary by the Society” specified in 2.1.1-4(8) of the Rules include, but are not limited to, such documents as the following: ((1) to (3) are omitted.)	GUIDANCE FOR MARINE ENGINE EMISSION VERIFICATION Chapter 1 GENERAL RULES 1.2 Definition 1.2.1 Terms 1 In applying 1.2.1(3) of the Rules, the procedures for engines fitted with selective catalytic reduction systems are also to be in accordance with <i>IMO</i> resolution <i>MEPC.291(71)</i>, as amended. In applying the resolution and the <i>NOx Technical Code</i> referred to in the resolution, IACS MPC series unified interpretations (MPC30(Rev.1), MPC58(Rev.1), MPC59(Rev.1), MPC74(Rev.1), MPC77(Rev.1), MPC106, MPC112(Rev.1), MPC115(Rev.1), MPC116(Rev.1) and MPC125(Rev.1)) related thereto are also to be applied. Chapter 2 EMISSION VERIFICATION, ETC. 2.1 Application for Emission Verification, etc. 2.1.1 Application for Emission Verification, etc. 1 For engines fitted with selective catalytic reduction systems, the “other documents considered necessary by the Society” specified in 2.1.1-4(8) of the Rules include, but are not limited to, such documents as the following: ((1) to (3) are omitted.)	

Amended-Original Requirements Comparison Table (Amendment to IMO Guidelines for Selective Catalytic Reduction Systems)

Amended	Original	Remarks
(4) Test plans of the onboard confirmation tests specified in 7, Annex of <i>IMO</i> resolution <i>MEPC.399(83)</i>, as amended 2.2 Emission Verification and Approval of Technical File of the Engine 2.2.1 Emission Verification and Approval of Technical File of the Engine 1 In applying 2.2.1(2)(a)i) of the Rules, refers to <i>IMO</i> resolution <i>MEPC.399(83)</i>, as amended, or others deemed appropriate by the Administration taking into account this resolution. 2 The “separately specified by the Society” referred to in 2.2.1(2)(a)iv)1) of the Rules for engines fitted with selective catalytic reduction systems means the following (1) and (2): (1) At the emission verification by means of measurement procedures for emission verification on a test bed, engines fitted with a NOx-reducing device are also subject to Section 5 of the Annex of <i>IMO</i> resolution <i>MEPC.399(83)</i>, as amended. (2) At the emission verification by means of measurement procedures for emission verification on a test bed, engines tested in a condition other than that specified in (1) above are also to be subject to Section 6 of the Annex of <i>IMO</i> resolution <i>MEPC.399(83)</i>, as amended. For such engines, it is necessary to ensure that the additional onboard confirmation tests specified in Section 7 of the Annex of <i>IMO</i> resolution <i>MEPC.399(83)</i>, as amended, are performed.	(4) Test plans of the on_board confirmation tests specified in 7, Annex of <i>IMO</i> resolution <i>MEPC.291(71)</i>, as amended 2.2 Emission Verification and Approval of Technical File of the Engine 2.2.1 Emission Verification and Approval of Technical File of the Engine 1 In applying 2.2.1(2)(a)i) of the Rules, refers to <i>IMO</i> resolution <i>MEPC.291(71)</i>, as amended, or others deemed appropriate by the Administration taking into account this resolution. 2 The “separately specified by the Society” referred to in 2.2.1(2)(a)iv)1) of the Rules for engines fitted with selective catalytic reduction systems means the following (1) and (2): (1) At the emission verification by means of measurement procedures for emission verification on a test bed, engines fitted with a NOx-reducing device are also subject to Section 5 of the Annex of <i>IMO</i> resolution <i>MEPC.291(71)</i>, as amended. (2) At the emission verification by means of measurement procedures for emission verification on a test bed, engines tested in a condition other than that specified in (1) above are also to be subject to Section 6 of the Annex of <i>IMO</i> resolution <i>MEPC.291(71)</i>, as amended. For such engines, it is necessary to ensure that the additional on_board confirmation tests specified in Section 7 of the Annex of <i>IMO</i> resolution <i>MEPC.291(71)</i>, as amended, are performed.	

Amended-Original Requirements Comparison Table (Amendment to IMO Guidelines for Selective Catalytic Reduction Systems)

Amended	Original	Remarks
EFFECTIVE DATE AND APPLICATION		
1. The effective date of the amendments is 1 November 2025. 2. Notwithstanding the amendments, the current requirements apply to ships the keels of which were laid or which were at <i>a similar stage of construction</i> before the effective date. (Note) The term “<i>a similar stage of construction</i>” means the stage at which the construction identifiable with a specific ship begins and the assembly of that ship has commenced comprising at least 50 <i>tonnes</i> or 1%* of the estimated mass of all structural material, whichever is the less. * For high speed craft, “1%” is to be read as “3%”. 3. Notwithstanding the provisions of 2. above, the amended requirements apply to ships for which the contractual delivery date of SCR systems to the ship is on or after 1 May 2026, or, in the absence of a contractual delivery date, the actual delivery of the SCR system to the ship is on or after 1 May 2026.		