

# **Certification of Diesel Engines Fitted with NOx-reducing Devices**

## **Amended Rules and Guidance**

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

## **Reason for Amendment**

The NOx Technical Code applied to marine diesel engines (hereinafter referred to as “engines”) stipulates detailed procedures related to the certification to be carried out to confirm the emission values of nitrogen oxides emitted engines.

According to these above-mentioned procedures, engines intended to be fitted with NOx-reducing devices are required to be tested on a test bed with such devices fitted; in other words, testing engines and such devices separately is not permitted except in cases where Administration approval is obtained.

The IMO adopted guidelines applicable to engines fitted with selective catalytic reduction systems as NOx-reducing devices as resolution MEPC.291(71) at the 71<sup>th</sup> Session of the IMO Marine Environment Protection Committee (MEPC71) held in July 2017. This resolution stipulates that test-bed testing of engines in which NOx-reducing devices are not fitted is acceptable in cases where the denitration performance of the selective catalytic reduction systems themselves as well as the amounts of nitrogen oxide emissions after the engines are installed on board are subsequently confirmed.

After that, the IMO discussed whether amending the NOx Technical Code was necessary to eliminate any mention of Administration approval, etc. in cases of approving the certification procedures in accordance with the provisions of MEPC.291(71).

As a result, amendments of the NOx Technical Code and the above-mentioned guidelines were adopted as resolution MEPC.317(74) and resolution MEPC.313(74) at the 74<sup>th</sup> Session of the IMO Marine Environment Protection Committee (MEPC74) held in May 2019.

Accordingly, relevant requirements were amended based upon said resolutions.

## **Outline of Amendment**

- (1) Amended relevant requirements to remove wording related to the need for Administration approval, etc. regarding test-bed testing without NOx-reducing devices being fitted for the purpose of confirming the NOx reduction rates of engines intended to be fitted with such devices.
- (2) Amended requirements related to the IMO guidelines applicable to engines fitted with selective catalytic reduction systems so that they make reference to the latest version of the NOx Technical Code.

## **Amended Requirements**

Rules for Marine Engine Emission Verification 2.2.1  
Guidance for Marine Pollution Prevention Systems Part 8: 2.1.2  
Guidance for Marine Engine Emission Verification 2.2.1