MPC 125 (Nov 2015) (Rev.1 May 2023) Technical Code on Control of Emission of Nitrogen Oxides from Marine Diesel Engines (NO_x Technical Code 2008, Chapter 4, Paragraph 4.4.6.1)

Paragraph 4.4.6.1, Chapter 4 of NO_x Technical Code (NTC) 2008 reads:

4.4.6.1 The engine group may be defined by basic characteristics and specifications in addition to the parameters defined in 4.3.8 for an engine family.

Interpretation

Paragraph 4.4.6.1 cross references 4.3.8 which provides guidance for selection of an engine family. For engines fitted with SCR system to reduce NO_x emissions it is recognised that some of the parameters provided may not be common to all engines within a group, 4.3.8.2.3 and 4.3.8.2.4 state that:

.3 individual cylinder displacement:

- to be within a total spread of 15%

.4 number of cylinders and cylinder configuration:

- applicable in certain cases only, e.g., in combination with exhaust gas cleaning devices

For engines fitted with SCR system to reduce NO_x emissions the number and arrangement of cylinders may not be common to all members of the engine group. These parameters may be replaced with new parameters derived from the SCR chamber and catalyst blocks, such as the SCR space velocity (SV), catalyst block geometry and catalyst material.

This interpretation may be applied to the engine family where the applicant has provided clear evidence that an engine family concept, allowing for different numbers and arrangements of cylinders, will result in same or lower NOx emissions of the engines with different cylinder numbers compared to the NOx emissions of the related parent engine.

Note:

1. This Unified Interpretation is to be uniformly implemented by IACS Societies not later than 1 July 2016.
2. Rev. 1 of this UR is to be uniformly implemented by IACS Societies not later than 1 January 2024.

End of Document