

MPC 115

(Nov 2015)
(Rev.1
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(Corr.1
May 2020)

2017 Guidelines Addressing Additional Aspects of the NOx Technical Code 2008 with regard to Particular Requirements related to Marine Diesel Engines Fitted With Selective Catalytic Reduction (SCR) Systems

(Resolution MEPC.291(71), Paragraph 3.2.11)

MEPC.291(71), Paragraph 3.2.11 reads

3.2 In addition to the information supplied in paragraph 3.1.3 of these Guidelines and items in section 2.4 of the NTC 2008, engine systems fitted with SCR should include the following information in Technical File:

.11 parameter check method as the verification procedure: with regard to the application of the parameter check method, requirements given in paragraph 2.3.6 and guidance given in paragraph 2 of appendix VII of the NTC 2008 should be taken into account in assessing the adequacy of a proposed procedure with analysers meeting or exceeding the requirements of appendix III of the NTC 2008; and

Interpretation

The engine technical file is to include details of the application of the parameter check method, requirements given in paragraph 2.3.6 of the NTC 2008 and guidance given in appendix VII, paragraph 2 of the NTC 2008 should be taken into account in assessing the adequacy of a proposed procedure with analysers meeting or exceeding the requirements of appendix III of the NTC 2008. Other systems or analysers may be accepted if they yield equivalent results, see paragraph 5.4.2 of the NTC 2008.

Where NOx monitoring is used to demonstrate compliance then measurement of the NOx reduction rate in accordance with chapter 7 of the guidelines is accepted as demonstrating compliance, analysers are to meet the requirements of appendix III of the NTC 2008.

Spot check may be taken as an on-board measurement of the NOx reduction rate in accordance with chapter 7 of the guidelines, alternatively, systems using a feed forward reductant control strategy may be fitted with NOx monitoring devices for the purposes of monitoring catalyst condition and SCR performance. Instrumentation used for spot checks, or alternatively monitoring, is to meet the requirements of Appendix III of the NOx Technical Code 2008 or are to be demonstrated as equivalent as permitted by 5.4.2 of the NTC 2008. Other systems or analysers may be accepted according to MPC112.

Note:

1. This Unified Interpretation is to be uniformly implemented by IACS Societies not later than 1 July 2016.
2. Rev.1 of this UI is to be uniformly implemented by IACS Societies from 1 July 2020.

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(cont)

For systems using feed forward reductant controls without NOx monitoring the applicant is to provide details of the relationship between engine load and reductant consumption and the means of checking that reductant flow is appropriate. The Technical File is to include proposals for maintaining records of reductant consumption and also reductant composition and quality. Records of reductant composition and quality may be based on delivery notes where these delivery notes include reductant concentration and quality parameters.

Reductant delivery notes may also be accepted for the purposes of verifying that the system has been operated using reductant. In such cases the reductant delivery notes are to be made available at annual, intermediate and renewal surveys. Where it is proposed to produce aqueous reductant on-board then the recording system is to consider records of feedstock deliveries and quality.

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