

MPC 113 (Nov 2015) 2011 Guidelines Addressing Additional Aspects to the NO_x Technical Code 2008 with regard to Particular Requirements related to Marine Diesel Engines fitted with Selective Catalytic Reduction (SCR) Systems (Resolution MEPC.198(62), Section 3.2.1.9)

MEPC.198(62), Section 3.2.1.9 reads:

3.2.1 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 its Technical File:

.9 controlling arrangements and settings of the SCR, e.g., model, specification of control device;

Interpretation

The engine technical file is to include details of controlling arrangements and settings of the SCR, e.g. model, specification of control device. This is to include, but not be limited to:

- a) Crew guidance for adjusting control parameters, where allowed
- b) Analyser zero and span check procedures and the periodicity of such checks, as applicable
- c) Analyser calibration gases to be carried on-board as applicable
- d) The reductant injection control strategy, whether this is a feed forward reductant injection control or feedback reductant injection control strategy
- e) Instrumentation and sensors which form part of the SCR control arrangement, as applicable
- f) Details of how access to the system configuration programs and data of programmable logic controllers (PLC) and central processing units (CPU) is restricted to prevent unauthorised alteration, where applicable
- g) Gas analysers, as applicable. Where gas analysers are to be used, including for feedback control or for feedforward control, the following details are to be included as a minimum:
 - (i) Type/model (identification number)
 - (ii) Calibration, zero and span check procedures and the periodicity of such checks
 - (iii) Calibration gases to be carried on-board
 - (iv) Maintenance and/or exchange requirements

When the combined engine/SCR system has different operating modes, such as separate modes for Tier II and Tier III compliance then the applicant is to include details of the control philosophy for selecting different modes of operation and for recording the mode of operation.

Note:

1. This Unified Interpretation is to be uniformly implemented by IACS Societies not later than 1 July 2016.

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