
MPC 120 (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 5.2.2)**

MEPC.198(62), Section 5.2.2 reads:

5.2.2 For an engine system fitted with SCR, the following parameters should be measured and recorded in the engine test report in accordance with section 5.10 of the NTC 2008:

- .1 injection rate of reductant at each load point (kg/h);*
- .2 exhaust gas temperature at the inlet and outlet of the SCR chamber (°C);*
- .3 pressure loss (kPa): it is necessary to measure the pressure at inlet and at outlet of the SCR chamber and to calculate pressure loss Δp . If the manufacturer sets an allowable limit of Δp , it should be confirmed; and*
- .4 other parameter(s) as specified by the Administration.*

Interpretation

The parameters which are to be measured to satisfy paragraph 5.2.2 are additional to those required by Chapter 5 of the NTC 2008.

In the case of a high pressure SCR system, when a SCR system is installed into the high pressure side of the turbine(s), measuring pressure loss using a subtraction calculation in accordance with paragraph 5.2.2.3 of the guidelines is likely to introduce error, because measurement instruments will have to be of a high pressure range type. Therefore it is also allowed to measure the pressure loss of the SCR chamber with a pressure loss sensor instead of calculating the pressure loss from two pressure values measured at the inlet and outlet of the SCR chambers separately.

Note:

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

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