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**MPC 112** (Nov 2015) **2011 Guidelines Addressing Additional Aspects to the NO<sub>x</sub> 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 3.2.1.8)**

**MEPC.198(62), Section 3.2.1.8 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:*

*.8 factors related to the deterioration rate of SCR performance, e.g., exchange condition for SCR blocks and recommended exchange time of SCR blocks;*

#### **Interpretation**

The engine technical file is to include details of factors related to the deterioration rate of SCR performance, e.g., exchange condition for SCR blocks and recommended exchange time of SCR blocks.

Where a feedback reductant control strategy is adopted utilising NO<sub>x</sub> monitoring then this is acceptable as a means of monitoring catalyst condition/degradation.

Where a feed forward control reductant control strategy is used then the applicant is to provide details of:

- a) The expected deterioration curve under expected operating conditions
- b) The life of catalyst under expected operating conditions
- c) Factors which can influence catalyst condition
- d) Guidance on how to assess catalyst condition and activity by spot checks, if applicable, should be provided. Records are to be kept for inspection during annual survey, intermediate and renewal surveys

SCR systems using a feed forward reductant control strategy may be fitted with NO<sub>x</sub> monitoring devices for the purposes of monitoring catalyst condition.

The technical file is to include guidance to assist the crew in recovering from SCR fouling and poisoning mechanisms where recovery from such fouling and poisoning can be achieved without exchanging catalyst blocks or applying specialised re-activation techniques.

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Note:

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

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