MPC 30 (July 2004

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Resolution 2 of the 1997 MARPOL Conference Technical Code on Control of Emission of Nitrogen Oxides from Marine Diesel Engines

(NO_X Technical Code 2008, Table 3 – Symbols and subscripts for terms and variables)

Table 3 – Symbols and subscripts for terms and variables used in the formulae for the test-bed measurement methods (refer to chapter 5, chapter 6, appendix 4 and appendix 6 of this Code)

Table 3 gives:

Symbol	Term	Dimension Unit
₽a	Saturation vapour pressure of the engine intake air (in ISO 3046-1, 1995: psy = PSY, test ambient vapour pressure)	kPa
₽B	Total barometric pressure (in ISO 3046-1, 1995: px = PX, site ambient total pressure; py = PY, test ambient total pressure)	kPa
₽s	Dry atmospheric pressure	kPa
Ra	Relative humidity of the intake air	%
Ta	Absolute temperature of the intake air Intake air temperature determined at the engine intake	К

Interpretation

For application of the term " p_s " it shall be interpreted that the dry atmospheric pressure is determined in accordance with the following formula:

$$p_s = p_B - \frac{R_a \bullet p_a}{100}$$

It shall also be interpreted that the p_a term be determined using a temperature value for the intake air measured at the same physical location as the measurements for p_B and R_a .

For application of the term " T_a " it shall be interpreted that the temperature of the intake air temperature intake air temperature determined at the engine intake is that determined at the engine / turbocharger intake suction filter.

Note:

- 1. This UI is to be uniformly implemented by IACS Societies from 19 May 2005.
- 2. Revision 1 of this UI is to be uniformly implemented by IACS Societies from 1 July 2020.

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