

MPC 76 (July 2004) **Resolution 2 of the 1997 MARPOL Conference
Technical Code on Control of Emission of
Nitrogen Oxides from Marine Diesel Engines**

Chapter 5.12.4.1

Chapter 5.12 Calculation of the gaseous emissions

Chapter 5.12.4 Calculation of the emission mass flow rates

Chapter 5.12.4.1 reads as follows:

The emission mass flow rates for each mode shall be calculated as follows (for the raw exhaust gas):

$$\text{Gas mass} = u \quad \bullet \quad \text{conc} \bullet G_{\text{EXHW}} \quad (15)$$

or

$$\text{Gas mass} = v \quad \bullet \quad \text{conc} \bullet V_{\text{EXHD}} \quad (16)$$

or

$$\text{Gas mass} = w \quad \bullet \quad \text{conc} \bullet V_{\text{EXHW}} \quad (17)$$

Interpretation:

For application of this section it shall be interpreted that for equations (15) and (17) the term “conc” applies to the averaged gas concentrations, as determined in accordance with 5.11, measured or corrected in accordance with 5.12.2 (conc, dry / $K_{W,r}$) to a wet basis and (in the case of NO_x) multiplied by the K_{HDIES} correction factor for humidity and temperature in accordance with 5.12.3.

For equation (16) the term “conc” applies to the averaged gas concentrations, as determined in accordance with 5.11, measured or corrected in accordance with 5.12.2 (conc, wet • $K_{W,r}$) to a dry basis and (in the case of NO_x) multiplied by the K_{HDIES} correction factor for humidity and temperature in accordance with 5.12.3.

Note:

This UI is to be uniformly implemented by IACS Societies from 19 May 2005.

