Problem 1.1

CIVE 3331

Proposed Standard for By is 0.08 ppm

a) Express standard as Ng/m3 of 25°C, latm

b) Express stondard as Ng/m3 at 15°C, 0.82 atm

$$\frac{P_1V_1}{T_1} = \frac{P_2V_2}{T_2}$$

Problem 1.2

Exhaust from outo 1.0% by volume CO. Express as
$$mg/m^3 = 25\%$$
, lating 0.01 $\frac{m^3}{m^3} * \frac{10^3 L}{m^3} * \frac{1 mole}{24.46 L} * \frac{289 CO}{mole} = 11.447 \frac{g}{m^3} * \frac{10^3 mg}{g} = 11,447 \frac{mg/m^3}{g}$

Average 302 is 400 My/m3 e 25°C, / atm. Does this exceede 24-hr skindard of

Yes 0.15 ppm > 0.14 ppm; concentration exceedes standard