

$$GHG_{n-m,i} = \sum_{j=1}^n [B_j \times t_j] \times MF_i \times \rho_i \times 0.001$$

Where:

$GHG_{n-m,i}$ = Annual emissions of greenhouse gas i attributable to high bleed pneumatic device venting, in metric tons;

n = Total number of high bleed pneumatic devices;

j = High bleed pneumatic device;

B_j = Natural gas bleed rate for pneumatic device j , determined in accordance with paragraph 2 of QC.33.4.1, in cubic metres per hour at standard conditions;

t_j = Annual operating time of pneumatic device j , in hours;

MF_i = Molar fraction of greenhouse gas i in natural gas, determined in accordance with paragraph 3 of QC.33.4;

ρ_i = Density of greenhouse gas i that is 1.893 kg per cubic metre for CO_2 and 0.690 kg per cubic metre for CH_4 at standard conditions;

0.001 = Conversion factor, kilograms to metric tons;

i = CO_2 or CH_4 ;