$$GHG_i = \sum_{j=1}^{n} \left[N_j \times V_j \times \left(\frac{T_{SC}}{T_B \times P_{SC}} \right) \times \left(P_{b1} - P_{b2} \right) \right] \times MF_i \times \rho_i \times 0.001$$

Where:

GHG_i = Annual emissions of greenhouse gas *i* attributable to natural gas emissions to the atmosphere from equipment blowdown vent stacks, in metric tons;
n = Total number of types of equipment;
j = Type of equipment with the same gas volume in the blowdown equipment chambers between isolation valves;
N_j = Annual number of blowdowns for each equipment type *j*, determined in accordance with QC.29.4.3;
V_j = Total volume of blowdown equipment chambers, between isolation valves, for equipment type *j*, determined in accordance with QC.29.4.3, in cubic metres;
T_{SC} = Temperature at standard conditions of 293.15 kelvin;
T_B = Temperature at blowdown conditions, in kelvin;
P_{b1}= Absolute pressure before blowdown, in kilopascals;
P_{b2} = Absolute pressure after blowdown or a value of 0 if the purge gas used is not CO_2 or CH_4, in kilopascals;
P_{SC} = Pressure at standard conditions of 101.325 kPa;
MF_i = Molar fraction of greenhouse gas *i* in natural gas, determined in accordance with paragraph 3 of QC.29.4;
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.