

$$GHG_i = \sum_{j=1}^n [EF \times t]_j \times MF_i \times \rho_i \times 0.001$$

Where:

GHG_i = Annual emissions of greenhouse gas i attributable to compressor scrubber dump valve leakage from condensate storage tanks connected to transmission storage tanks, in metric tons;

n = Number of equipments;

j = Device;

EF = Emission factor for leakage from device j , determined in accordance with QC.29.4.10, in cubic metres per hour at standard conditions;

t = Duration of leakage from device j , determined in accordance with QC.29.4.10, in hours;

MF_i = Molar fraction of greenhouse gas i in gas from reciprocating compressor vents, 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 .