

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

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 metric tons per hour;

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 CO₂ and 0.690 kg per cubic metre for CH₄ at standard conditions;

0.001 = Conversion factor, kilograms to metric tons;

i = CO₂ or CH₄.