40 C.F.R. § 98.423

Calculating CO2 supply.

(a) Except as allowed in paragraph (b) of this section, calculate the annual mass of CO_2 captured, extracted, imported, or exported through each flow meter in accordance with the procedures specified in either paragraph (a)(1) or (a)(2) of this section. If multiple flow meters are used, you shall calculate the annual mass of CO_2 for all flow meters according to the procedures specified in paragraph (a)(3) of this section.

(1) For each mass flow meter, you shall calculate quarterly the mass of CO_2 in a CO_2 stream in metric tons by multiplying the mass flow by the composition data, according to Equation PP-1 of this section. Mass flow and composition data measurements shall be made in accordance with § 98.424 of this subpart.

$$CO_{2,u} = \sum_{p=1}^{4} Q_{p,u} * C_{CO_{2,p,u}} \qquad (Eq. PP\text{-}1)$$

Where:

$CO_{2,u}$ = Annual mass of CO_2 (metric tons) through flow meter u. $C_{CO2,p,u}$ = Quarterly CO_2 concentration measurement in flow for flow meter u in quarter p (wt. %CO_2). $Q_{p,u}$ = Quarterly mass flow rate measurement for flow meter u in quarter p (metric tons). p = Quarter of the year. u = Flow meter.

(2) For each volumetric flow meter, you shall calculate quarterly the mass of CO_2 in a CO_2 stream in metric tons by multiplying the volumetric flow by the concentration and density data, according to Equation PP-2 of this section. Volumetric flow, concentration and density data measurements shall be made in accordance with § 98.424 of this section.

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