§ 98.151 Reporting threshold.

You must report GHG emissions under this subpart if your facility contains an HCFC–22 production or HFC–23 destruction process and the facility meets the requirements of either § 98.2(a)(1) or (a)(2).

§ 98.152 GHGs to report.

(a) You must report under subpart C of this part (General Stationary Fuel Combustion Sources) the emissions of CO₂, CH₄, and N₂O from each stationary combustion unit following the requirements of subpart C.

(b) You must report HFC–23 emissions from HCFC–22 production processes and HFC–23 destruction processes.

§ 98.153 Calculating GHG emissions.

(a) The mass of HFC–23 generated from each HCFC–22 production process shall be estimated by using one of two methods, as applicable:

1. Where the mass flow of the combined stream of HFC–23 and another reaction product (e.g., HCl) is measured, multiply the weekly (or more frequent) HFC–23 concentration measurement (which may be the average of more frequent concentration measurements) by the weekly (or more frequent) mass flow of the combined stream of HFC–23 and the other product. To estimate annual HFC–23 production, sum the weekly (or more frequent) estimates of the quantities of HFC–23 produced over the year. This calculation is summarized in Equation O–2 of this section, assuming that the other product is HCFC–22. If the other product is HCl, HCl may be substituted for HCFC–22 in Equations O–2 and O–3 of this section.

\[
G_{23} = \sum_{p=1}^{n} \left( \frac{c_{23}}{c_{22}} \right) P_{22} \times 10^{-3} \quad \text{(Eq. O-2)}
\]

Where:

\( G_{23} \) = Mass of HFC–23 generated annually (metric tons).

\( c_{23} \) = Fraction HFC–23 by weight in HFC–22/HFC–23 stream.

\( c_{22} \) = Fraction HCFC–22 by weight in HCFC–22/HFC–23 stream.

\( P_{22} \) = Mass of HCFC–22 produced over the period p (kg), calculated using Equation O–3 of this section.

\( n \) = Number of concentration and mass measurement periods for the year.

\( 10^{-3} \) = Conversion factor from kilograms to metric tons.

(b) The mass of HCFC–22 produced over the period p shall be estimated by using Equation O–3 of this section:

\[
P_{22} = LF \times (O_{22} - U_{22}) \quad \text{(Eq. O-3)}
\]

Where:

\( P_{22} \) = Mass of HCFC–22 produced over the period p (kg).

\( O_{22} \) = Mass of used HCFC–22 that is added to the production process upstream of the output measurement over the period p (kg).

\( U_{22} \) = Mass of HCFC–22 that is measured coming out of the Production process over the period p (kg).

\( LF \) = Factor to account for the loss of HCFC–22 upstream of the measurement. The value for LF shall be determined pursuant to §98.154(e).

(c) For HCFC–22 production facilities that do not use a destruction device or that have a destruction device that is not directly connected to the HCFC–22