

Environmental Protection Agency

§ 98.304

§ 98.302 GHGs to report.

You must report total SF₆ and PFC emissions from your facility (including emissions from fugitive equipment leaks, installation, servicing, equipment decommissioning and disposal, and from storage cylinders) resulting from the transmission and distribution servicing inventory and equipment listed in § 98.300(a). For acquisitions of equipment containing or insulated

with SF₆ or PFCs, you must report emissions from the equipment after the title to the equipment is transferred to the electric power transmission or distribution entity.

§ 98.303 Calculating GHG emissions.

(a) Calculate the annual SF₆ and PFC emissions using the mass-balance approach in Equation DD-1 of this section:

$$\begin{aligned} \text{User Emissions} = & (\text{Decrease in SF}_6 \text{ Inventory}) + (\text{Acquisitions} \\ & \text{of SF}_6) - (\text{Disbursements of SF}_6) - (\text{Net Increase in Total} \\ & \text{Nameplate Capacity of Equipment Operated}) \end{aligned}$$

(Eq. DD-1)

where:

Decrease in SF₆ Inventory = (pounds of SF₆ stored in containers, but not in energized equipment, at the beginning of the year) – (pounds of SF₆ stored in containers, but not in energized equipment, at the end of the year).

Acquisitions of SF₆ = (pounds of SF₆ purchased from chemical producers or distributors in bulk) + (pounds of SF₆ purchased from equipment manufacturers or distributors with or inside equipment, including hermetically sealed-pressure switchgear) + (pounds of SF₆ returned to facility after off-site recycling).

Disbursements of SF₆ = (pounds of SF₆ in bulk and contained in equipment that is sold to other entities) + (pounds of SF₆ returned to suppliers) + (pounds of SF₆ sent off site for recycling) + (pounds of SF₆ sent off-site for destruction).

Net Increase in Total Nameplate Capacity of Equipment Operated = (The Nameplate Capacity of new equipment in pounds, including hermetically sealed-pressure switchgear) – (Nameplate Capacity of retiring equipment in pounds, including hermetically sealed-pressure switchgear). (Note that Nameplate Capacity refers to the full and proper charge of equipment rather than to the actual charge, which may reflect leakage).

(b) Use Equation DD-1 of this section to estimate emissions of PFCs from power transformers, substituting the relevant PFC(s) for SF₆ in the equation.

§ 98.304 Monitoring and QA/QC requirements.

(a) For calendar year 2011 monitoring, you may follow the provisions of § 98.3(d)(1) through (d)(2) for best available monitoring methods rather than follow the monitoring requirements of this section. For purposes of this subpart, any reference in § 98.3(d)(1) through (d)(2) to 2010 means 2011, to March 31 means June 30, and to April 1 means July 1. Any reference to the effective date in § 98.3(d)(1) through (d)(2) means February 28, 2011.

(b) You must adhere to the following QA/QC methods for reviewing the completeness and accuracy of reporting:

(1) Review inputs to Equation DD-1 of this section to ensure inputs and outputs to the company's system are included.

(2) Do not enter negative inputs and confirm that negative emissions are not calculated. However, the Decrease in SF₆ Inventory and the Net Increase in Total Nameplate Capacity may be calculated as negative numbers.

(3) Ensure that beginning-of-year inventory matches end-of-year inventory from the previous year.

(4) Ensure that in addition to SF₆ purchased from bulk gas distributors, SF₆ purchased from Original Equipment Manufacturers (OEM) and SF₆ returned to the facility from off-site recycling are also accounted for among the total additions.