Electrical Equipment Manufacture or Refurbishment

Subpart SS, Greenhouse Gas Reporting Program

United States Environmental Protection Agency

What Must Be Monitored for Each Manufacturer or Refurbisher of Electric Power Transmission and Distribution Equipment Insulated with Sulfur Hexafluoride (SF_6) and/or Perfluorocarbons (PFCs)?

Measure or estimate these parameters annually (unless otherwise noted)

- ☐ SF_6 and PFC bulk purchases (pounds)
- ☐ SF_6 and PFCs sent off-site for destruction (pounds)
- ☐ SF_6 and PFCs sent off-site to be recycled (pounds)
- ☐ SF_6 and PFCs returned from off-site after recycling (pounds)
- ☐ SF_6 and PFCs returned by equipment users with or inside equipment (pounds)
- ☐ SF_6 and PFCs stored in containers at the beginning and end of the year (pounds).
- ☐ SF_6 and PFCs inside new equipment delivered to customers (pounds)
- ☐ SF_6 and PFCs in containers delivered to customers (pounds)
- ☐ SF_6 and PFCs returned to suppliers (pounds)
- ☐ The nameplate capacity of the equipment delivered to customers with SF_6 or PFCs inside, if different from the quantity of SF_6 and PFCs inside equipment delivered to customers (pounds)

To determine losses during disbursement of SF6 or PFCs from containers to equipment or cylinder being filled:

- ☐ The mass of contents of the containers used to fill equipment or cylinders at the beginning and ending of each filling
- ☐ The mass of the SF_6 or PFC that has flowed through the flow meter during the filling event
- ☐ The mass of the SF_6 or PFC emitted downstream of the flow meter (emissions from hoses or other flow lines that connect the container to the equipment that is being filled)
- ☐ The emission factor values for each hose and valve combination and the associated valve fitting sizes and hose diameter
- ☐ The total number of fill operations for each hose and valve combination
- ☐ SF_6 or PFC emissions that occur as a result of unexpected events or accidental losses, such as a malfunctioning hose or leak in the flow line, during the filling of equipment or containers for disbursement (pounds)

If using the assumption that the mass SF_6 or the PFC disbursed to customers in new equipment is equal to the equipment's nameplate capacity (or partial shipping charge):

- ☐ The mean nameplate capacity for each make, model, and group of conditions (every five years) (pounds)
- ☐ The total number of samples taken for each make, model, and group of conditions (every five years)
- ☐ The upper and lower bounds on the 95 percent confidence interval for each make, model, and group of conditions (every five years) (pounds)

To determine installation losses:

- ☐ SF_6 and PFCs used to fill equipment at off-site electric power transmission or distribution facilities (pounds)
- ☐ The nameplate capacity of the equipment installed at off-site electric power transmission or distribution facilities (pounds)
- ☐ SF_6 and PFCs used to charge the equipment prior to leaving the electrical equipment manufacturer facility (pounds)

See also the information sheet for Electrical Equipment Manufacture or Refurbishment available at: https://www.epa.gov/ghgreporting/subpart-ss-information-sheet.

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