

Electrical Equipment Manufacture or Refurbishment

Subpart SS, Greenhouse Gas Reporting Program

Measure these parameters for each manufacturer or refurbisher of electric power transmission and distribution equipment insulated with sulfur hexafluoride (SF₆) and/or perfluorocarbons (PFCs):



What Must Be Monitored?

Measure or estimate these parameters annually (unless otherwise noted):

- SF₆ and PFC bulk purchases (pounds (lbs)).
- SF₆ and PFCs sent off-site for destruction (lbs).
- SF₆ and PFCs sent off-site to be recycled (lbs).
- SF₆ and PFCs returned from off-site after recycling (lbs).
- SF₆ and PFCs returned by equipment users with or inside equipment (lbs).
- SF₆ and PFCs stored in containers at the beginning and end of the year (lbs).
- SF₆ and PFCs inside new equipment delivered to customers (lbs).
- SF₆ and PFCs in containers delivered to customers (lbs).
- SF₆ and PFCs returned to suppliers (lbs).
- The nameplate capacity of the equipment delivered to customers with SF₆ or PFCs inside, if different from the quantity of SF₆ and PFCs inside equipment delivered to customers (lbs).

To determine losses during 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 SF₆ or PFC that has flowed through the flow meter during the filling event.
- The mass of the SF₆ 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 (EF) 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.
- SF₆ 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 (lbs).

If using the assumption that the mass SF₆ 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 5 years) (lbs).
- The upper and lower bounds on the 95% confidence interval for each make, model, and group of conditions (every 5 years) (lbs).
- The total number of samples taken for each make, model, and group of conditions (every 5 years).

To determine installation losses:

- SF₆ and PFCs used to fill equipment at off-site electric power transmission or distribution facilities (lbs).
- SF₆ and PFCs used to charge the equipment prior to leaving the electrical equipment manufacturer facility (lbs).
- The nameplate capacity of the equipment installed at off-site electric power transmission or distribution facilities (lbs).



For More Information

For additional information and resources on Subpart SS, please visit the [Subpart SS webpage](#).

This monitoring checklist is provided solely for informational purposes. It does not replace the need to read and comply with the regulatory text contained in the rule. Rather, it is intended to help reporting facilities and suppliers understand key provisions of the GHGRP. It does not provide legal advice; have a legally binding effect; or expressly or implicitly create, expand, or limit any legal rights, obligations, responsibilities, expectations, or benefits with regard to any person or entity.