

Underground Coal Mines

Subpart FF, Greenhouse Gas Reporting Program

Measure these parameters for each underground coal mine meeting the threshold:



What Must Be Monitored?

Each underground coal mine must monitor these parameters for their mine ventilation air:

- ☐ Volumetric flow rate of gas for each ventilation monitoring point (standard cubic feet per minute (scfm)) (quarterly or more frequent).
- ☐ Methane (CH₄) concentration (%) for each ventilation monitoring point (quarterly or more frequent).
- ☐ Temperature (°Rankine (°R)) values at the time, location, and conditions for which measurements are made (quarterly or more frequent).
- ☐ Pressure (standard atmospheres (atm)) values at the time, location, and conditions for which measurements are made (quarterly or more frequent).
- ☐ Moisture content (%) at the time, location, and conditions for which measurements are made (quarterly or more frequent).

Note: mines may use Mine Safety and Health Administration (MSHA) data for CH₄ flowrate, negating the need to measure ventilation air volumetric flowrate, CH₄ concentration, or moisture content. When using MSHA data, temperature (°R) values must be taken at the same location, and within seven days of, the MSHA measurements. Pressure may be obtained from the nearest National Oceanic and Atmospheric Administration (NOAA) weather service station.

Each underground coal mine using a degasification system (deployed before, during, or after mining operations) must also monitor these parameters:

- ☐ Volumetric flow of CH₄ liberated from each degasification monitoring point (weekly or more frequent).
- ☐ CH₄ concentration from each degasification monitoring point (%) (weekly or more frequent).
- ☐ Temperature (°R) values at the time, location, and conditions for which measurements are made (weekly or more frequent).
- ☐ Pressure (atm) values at the time, location, and conditions for which measurements are made (weekly or more frequent).
- ☐ Moisture content (%) at the time, location, and conditions for which measurements are made (weekly or more frequent).

Each underground coal mine where CH₄ is destroyed or transported off-site for destruction must monitor:

- ☐ Volumetric flow of gas at each destruction device or point of off-site transport for destruction (continuous).
- ☐ CH₄ concentration of gas at each destruction device or point of off-site transport for destruction (continuous).
- ☐ Temperature (°R) values of gas at each destruction device or point of off-site transport for destruction (continuous).
- ☐ Pressure (atm) values of gas at each destruction device or point of off-site transport for destruction

(continuous).

- ☐ Moisture content (%) of gas at each destruction device or point of off-site transport for destruction (continuous).



For More Information

For additional information and resources on Subpart FF, please visit the [Subpart FF 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.