

Underground Coal Mines

Monitoring Checklist



Greenhouse Gas Reporting Program

What Must Be Monitored for Each Underground Coal Mine Meeting the Threshold?

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

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| <input type="checkbox"/> Volumetric flow rate of gas for each ventilation monitoring point (scfm) (Quarterly or more frequent) | <input type="checkbox"/> Pressure (atm) values at the time, location, and conditions for which measurements are made. (Quarterly or more frequent) |
| <input type="checkbox"/> CH ₄ concentration (%) for each ventilation monitoring point (Quarterly or more frequent) | <input type="checkbox"/> Moisture content (%) at the time, location, and conditions for which measurements are made. (Quarterly or more frequent) |
| <input type="checkbox"/> Temperature (°R) values at the time, location, and conditions for which measurements are made. (Quarterly or more frequent) | |

Note: mines may use MSHA data for methane flowrate, negating the need to measure ventilation air volumetric flowrate, methane 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 NOAA weather service station.

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

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|---|---|
| <input type="checkbox"/> Volumetric flow of CH ₄ liberated from each degasification monitoring point (Weekly or more frequent) | <input type="checkbox"/> Pressure (atm) values at the time, location, and conditions for which measurements are made. (Weekly or more frequent) |
| <input type="checkbox"/> CH ₄ concentration from each degasification monitoring point (%) (Weekly or more frequent) | <input type="checkbox"/> Moisture content (%) at the time, location, and conditions for which measurements are made. (Weekly or more frequent) |

- Temperatures (°R) values 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 offsite for destruction must monitor ...

- Volumetric flow of gas at each destruction device or point of offsite transport for destruction (continuous)
- CH₄ concentration of gas at each destruction device or point of offsite transport for destruction (continuous)
- Temperatures (°R) values of gas at each destruction device or point of offsite transport for destruction (continuous)
- Pressure (atm) values of gas at each destruction device or point of offsite transport for destruction (continuous)
- Moisture content (%) of gas at each destruction device or point of offsite transport for destruction (continuous)

See also the information sheet for Underground coal mines at <http://www.epa.gov/climatechange/emissions/subpart/ff.html>