

# 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 ...**

- |  |  |
|--|--|
| <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 <sub>4</sub> 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...**

- |   |   |
|---|---|
| <input type="checkbox"/> Volumetric flow of CH <sub>4</sub> 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 <sub>4</sub> 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 CH<sub>4</sub> is destroyed or transported offsite for destruction must monitor ...**

- |   |   |
|---|---|
| <input type="checkbox"/> Volumetric flow of gas at each destruction device or point of offsite transport for destruction (continuous)               | <input type="checkbox"/> Pressure (atm) values of gas at each destruction device or point of offsite transport for destruction (continuous) |
| <input type="checkbox"/> CH <sub>4</sub> concentration of gas at each destruction device or point of offsite transport for destruction (continuous) | <input type="checkbox"/> Moisture content (%) of gas at each destruction device or point of offsite transport for destruction (continuous)  |
| <input type="checkbox"/> Temperatures (°R) values 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/ghgreporting/reporters/subpart/ff.html>*