

**MICHIGAN DEPARTMENT of ENVIRONMENT, GREAT LAKES, and ENERGY
AIR QUALITY DIVISION**

Monitoring Plan Requirements for Gaseous, Opacity, and Process Parameter Monitors

1. General Description of the process(es) and pollution control equipment.
2. Explain and show that the location of the monitor(s) will be representative of emissions and also be accessible. Provide a flow diagram showing the sample acquisition point(s) or path(s) in relation to:
 - a. Flow disturbances (fans, elbows, inlets, outlets, etc.)
 - b. Pollution control equipment
 - c. Emission point of monitored gases to the atmosphere
 - d. Flue walls at the sample acquisition location

If necessary, include any test data and explanations as to the basis for the choice of the location. Explain any deviation from location criteria in Performance Specification 1, section 4 and/or Performance Specification 2, section 3 of Appendix B in 40 CFR Part 60.

3. Following system information:
 - a. Pollutant(s) and/or parameter(s) to be monitored.
 - b. Operating principles of the analyzers.
 - c. Number of analyzers, including number of sample acquisition point(s) or path(s) per analyzer and locations monitored by each.
 - d. Equipment manufacture, model number(s) and serial numbers.
 - e. Type of probe (will the system be able to accept and external audit?).
 - f. Equipment specifications of monitors which will be verified by the applicable Performance Specification of Appendix B in 40 CFR Part 60.
 - g. Formulas including any factors used to calculate emissions in the units of the applicable standard.
 - h. Span Values of all pollutant monitors.
 - i. Instrument ranges of all pollutant monitors.
 - j. Proposed daily calibration gas, calibration error, linearity and/or cylinder gas audit values.
 - k. Data acquisition system/data recorder resolution.
4. Expected date of monitor installation and performance specification testing.