

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Air Division

Instructions for Completion of Form ADEM 438

- Item 1:** Self explanatory.
- Item 2:** Check the appropriate box for the pollutant or parameter listed which will be monitored by this Continuous Emission Monitoring System. If the pollutant or parameter is not listed, check the box named "other" and explain what pollutant or parameter is being monitored.
- Item 3:** On the appropriate lines: list the name of the manufacturer (ex. : TECO, Rosemount, etc.), list the model number of the CEMS (ex. : RM 41, 10S, etc.), list the serial number which is stamped on the monitor.
- Item 4:** Follow the instructions listed for number 3.
- Item 5:** On the appropriate lines name the emission source that is to be monitored (ex. : #1 recovery boiler, #2 lime kiln, etc.). After the source name, indicate the location from where the effluent sample is extracted (ex. : stack, duct, etc.).
- Item 6:** Give a short description of the calibration method (ex. : daily calibration with a zero gas and a midrange gas), then estimate how much down time will occur because of calibrations, maintenance, repairs, etc.
- Item 7:** Self explanatory.
- Item 8:** Check the appropriate box or boxes for which this CEMS applies.
- Item 9:** Indicate the range that the monitor will be set at for this application (ex. : 0 to 500 ppm).
- Item 10:** Indicate which performance protocol will be used in certifying this monitor (ex. : performance specification 2).
- Item 11:** Indicate the type of monitor.
- Item 12:** If the monitor is dilution extractive, indicate the ratio of dilution air used (ex. : 250 parts dry air to 1 part effluent).
- Item 13:** Indicate whether or not the effluent is conditioned before it is measured by the monitor. If yes, indicate the type of conditioning system that will be used.
- Item 14:** Self explanatory.

**PERMIT APPLICATION
FOR
CONTINUOUS EMISSION MONITORING SYSTEMS (CEMS)**

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Do not write in this space

1. Name of firm or organization: _____

2. List pollutant or parameter the continuous emission monitoring system is measuring:

- | | |
|---|--|
| <input type="checkbox"/> Sulfur dioxide | <input type="checkbox"/> Carbon monoxide |
| <input type="checkbox"/> Nitrogen oxides | <input type="checkbox"/> Particulates |
| <input type="checkbox"/> PM10 | <input type="checkbox"/> Exhaust temperature |
| <input type="checkbox"/> Oxygen | <input type="checkbox"/> Hydrogen chloride |
| <input type="checkbox"/> Pressure | <input type="checkbox"/> Opacity |
| <input type="checkbox"/> Carbon dioxide | <input type="checkbox"/> Temperature |
| | <input type="checkbox"/> Exhaust gas |
| | <input type="checkbox"/> Primary Chamber |
| | <input type="checkbox"/> Secondary chamber |
| <input type="checkbox"/> Total reduced sulfides | <input type="checkbox"/> Flow rate |
| <input type="checkbox"/> Hydrogen sulfide | <input type="checkbox"/> VOCs |
| <input type="checkbox"/> Other (explain): _____ | |

3. CEMS Manufacturer's information:

Name of manufacturer: _____

Model number: _____

Serial number: _____

4. Data acquisition system to be used (data logger, strip chart, etc.):

Name of manufacturer: _____

Model number: _____

Serial number: _____

5. Indicate emission source to be monitored and the location of the specific CEM:

6. Briefly describe the calibration and operational procedures to be used in operating the CEM: (indicate estimate of time lost in calibrating, maintaining, repairing, etc.)

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7. Indicate CEM calibration/maintenance schedule: _____

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8. Check which program(s) apply to the unit with the monitor:

- NSPS SIP PSD BIF
 NESHAPS Acid Rain RCRA Enhanced Monitoring

9. Monitor span: From: _____ To: _____

10. Performance protocol (from Appendix B in 40 CFR Part 60): _____

11. Insitu/dilution extractive/extractive? (type): _____

12. If dilution extractive, give approximate dilution rate: _____

13. Conditioning system? yes no

If yes, what type? _____

14. Does Appendix F in 40 CFR Part 60 apply? yes no

Name of person preparing application: _____

Signature: _____ Date: _____