



**PERMIT APPLICATION FOR CONTINUOUS EMISSION MONITORING SYSTEMS  
ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
AIR DIVISION**

**INSTRUCTIONS FOR COMPLETION OF  
PERMIT APPLICATION FOR CONTINUOUS EMISSION MONITORING SYSTEMS  
ADEM FORM 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.



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Do not write in this space

1. Name of facility or organization: .....

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

- Sulfur dioxide
- Nitrogen oxides
- PM 10
- Oxygen
- Pressure
- Carbon dioxide
- Carbon monoxide
- Particulates
- Exhaust temperature
- Hydrogen chloride
- Opacity
- Temperature
  - Exhaust gas
  - Primary Chamber
  - Secondary Chamber
- Total reduced sulfides
- Hydrogen sulfide
- Other (explain): .....
- Flow Rate
- VOCs

3. CEMS Manufacturer's Information:

Name of manufacturer: .....

Model number: .....

Serial number: .....

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

Name of manufacturer/software: .....

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.):

7. Indicate CEM calibration/maintenance schedule:

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

- |                                  |                                    |                               |  |
|----------------------------------|------------------------------------|-------------------------------|--|
| <input type="checkbox"/> NSPS    | <input type="checkbox"/> SIP       | <input type="checkbox"/> PSD  | <input type="checkbox"/> BIF                 |
| <input type="checkbox"/> NESHAPS | <input type="checkbox"/> Acid Rain | <input type="checkbox"/> RCRA | <input type="checkbox"/> 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: \_\_\_\_\_

Company of preparer \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_