



FORM CE1: CONTROL EQUIPMENT INFORMATION FOR FABRIC FILTER EQUIPMENT

Please see instructions on reverse side.

Company Name: _____

CONTROL EQUIPMENT DESCRIPTION

1. Type of Control Equipment: Baghouse Cartridge Filters Bin Vent Filters Other _____
2. Control Equipment (CE) ID: _____
3. Emission Point (EP) ID: _____
4. Manufacturer: _____
5. Model: _____
6. Date of On-Site Installation: _____ 7. Date of Modification: _____
8. Is a Capture Hood Involved: Yes No 9. If yes, Capture Hood Efficiency (percentage): _____

CONTROL EQUIPMENT PERFORMANCE MONITORING

10. Describe how your facility will monitor the performance of this control equipment:
- Pressure Drop Outlet Pollutant Concentration
- Bag Leak Detection System Control Equipment Inspections and Maintenance
- Visible Emissions Observation Cleaning Operation Frequency
- Parametric Pollution Concentration (Attach Documentation) Other _____
11. Describe the range and monitoring frequency of your control device monitoring choice(s):

DETAILED CONTROL EQUIPMENT SPECIFICATIONS

12. Manufacturer's Data and Engineering Specifications Enclosed: Yes No
13. Pressure Drop Range (in H₂O): _____
14. Material Filter Media:
- Teflon Polypropylene
- Polyester Cotton
- Fiberglass Other _____
15. Total Filter Face Area of Control Device (ft²): _____
16. Bag cleaning method: Pulse Jet Shaking Reverse Air Other _____
(if applicable)

17. Pollutant Control Efficiency	PM	PM ₁₀	PM _{2.5}	Other()

Instructions for Form CE1: Control Equipment Information for Fabric Filter Equipment

- If you have multiple pieces of control equipment that vent from one emission point, attach the appropriate form for each piece of control equipment or control measure.
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Understanding CE1 Form Information: Each number provides an explanation for the corresponding field on the form.

Company Name: This is useful if application pages become separated.

Control Equipment Description:

1. **Type of Control Equipment:** Provide the type of fabric filter used. Some examples of fabric filters include bag house, cartridge filters, bin vent filters, etc.
2. **Control Equipment (CE) ID:** Called the control equipment (CE) identification (ID). It can be any combination of letters or numbers up to 16 characters in length. The ID should match the ID for this control equipment used on previous construction permit applications and within this application. If also submitting an operating permit application, the ID used in this application should be consistent with those used in the operating permit application.
3. **Emission Point (EP) ID:** called the emission point (EP) identification (ID). It can be any combination of letters or numbers up to 16 characters in length. The ID should match the ID for this equipment used on other construction permit applications and within this application. If also submitting an operating permit application, the ID used in this application should be consistent with the ID used in the operating permit application.
4. **Manufacturer:** Provide the manufacturer of the control equipment (if known).
5. **Model:** Provide the model number of the control equipment (if known). If custom, provide engineering specifications as indicated in #13-#17.
6. **Date of On-Site Installation:** Provide the date when on-site installation of the control equipment began or will begin, including the month and year.
7. **Date of Modification:** Provide the month and year of the last modification. In the case of a proposed modification, provide the best estimate of the modification date. For the purpose of this form, **Modification** means any physical change, or change in method of operation of any existing equipment or control equipment.
8. **Capture Hood:** Indicate whether there is a capture hood associated with the emission unit and control device. A **Capture Hood** catches air pollution at the emission unit and directs to the control device. It is used when the control equipment is not in a closed system with the emission unit.
9. **Capture Hood Efficiency:** If there is a capture hood, list the capture efficiency, if known. The capture hood efficiency can be obtained from the hood manufacturer or vendor.

Performance Monitoring:

10. **Monitoring Control Equipment:** Describe how your facility will monitor the performance of this control equipment. Additional monitoring may be required by the DNR to ensure compliance with requested permit limits. Examples of control equipment monitoring include measuring pressure drop across the filter, visual emissions observation, installation of a bag leak detection system, etc.
11. **Range and Monitoring Frequency:** Describe the range (e.g., pressure drop, etc.) and the frequency of each monitoring choice for this control device that was listed in #10. The range should provide for the normal operating range of the equipment and can be obtained from the manufacturer and vendor. The range could also be determined from stack testing. The applicant should provide an estimate of the frequency of parameter monitoring that they feel is reasonable.

Frequency can be as often as continuously or can be as little as annually depending on the type of equipment, the monitoring parameter chosen, and the importance of the control equipment to meet the emissions limits requested in the permit.

Detailed Control Equipment Specifications:

12. **Manufacturer's Data and Engineering Specifications:** Indicate whether supporting documentation, such as manufacturer's data or engineering specifications, is attached. The manufacturer's data should provide a general description of the control equipment and specific design specifications that would answer the remaining questions in this section of the form. If yes, attach as a separate sheet labeled "Form CE1-12A". If supporting documentation is not attached, the department may request specific design and operational specifications for the equipment.
13. **Pressure Drop Range:** Provide the expected pressure drop range (in inches of H₂O).
14. **Material Filter Media:** Provide the type of material that the filter media is constructed of (for example: cotton, polyester, polypropylene, nylon, acrylic, fiberglass, Teflon, etc.).
15. **Total Filter Face Area of Control Device:** Provide the total filter area of the control device in ft².
16. **Bag Cleaning Method:** Indicate the method that is used to clean the filter media, if applicable.
17. **Pollutant Control Efficiency:** For each pollutant controlled, indicate the overall efficiency of the control device, as designed. Include supporting documentation for the control efficiency of the control equipment. Attach the supporting documentation as a separate sheet labeled "Form CE1-17A".