



## FORM CE2: CONTROL EQUIPMENT INFORMATION FOR CYCLONES

Please see instructions on reverse side.

Company Name: \_\_\_\_\_

### CONTROL EQUIPMENT DESCRIPTION

1. Type of Control Equipment:  Cyclone  Multiclone  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  Control Equipment Inspections and Maintenance

Visible Emissions (Observation)  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

**NOTE: If yes, skip #13 through #17**

13. Inlet duct velocity: \_\_\_\_\_

14. Cyclone body length (in): \_\_\_\_\_

15. Internal diameter (in): \_\_\_\_\_

16. Pressure Drop Range (in H<sub>2</sub>O): \_\_\_\_\_

17. Pollutant Control Efficiency	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	Other( )

## Instructions for Form CE2: Control Equipment Information for Cyclones

- If you have multiple pieces of control equipment that vent from one emission point, attach the appropriate form for each piece of control equipment.
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### Understanding CE2 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:** Check the appropriate box for the type of cyclone.
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 those 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 required 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 Linn County to ensure compliance with requested permit limits. Examples of control equipment monitoring include measuring pressure drop across the cyclone; visual emissions observation; 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 CE2-12A". If supporting documentation is not attached, the department may request specific design and operational specifications for the equipment. **If supporting documentation is included, skip #13 - 17.**

**Skip the following questions if Manufacturer's Data and Engineering Specifications are included in #12:**

13. **Inlet Velocity:** Provide the inlet duct velocity, as designed.
14. **Cyclone Body Length:** Provide the cyclone body length in inches.
15. **Internal Diameter (in):** Provide the internal diameter of the conical section of the cyclone, as designed.
16. **Pressure Drop Range (in H<sub>2</sub>O):** Provide the expected pressure drop (in inches of H<sub>2</sub>O).
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 this information as a separate sheet labeled "Form CE2-17A".