

Southwest Clean Air Agency

5101 NE 82nd Ave., Ste. 102, Vancouver, WA 98662 Phone: (360) 574-3058

CYCLONE SEPARATORS & PNEUMATIC TRANSFER EQUIPMENT

APPLICANT: _____ NOC# _____

(Instructions on Back)

CYCLONE DATA:

Manufacturer: _____

Model Number: _____ Identification Used at Plant: _____

Main Plenum Size: _____ Main Plenum Length: _____

Number of Pickup Points: _____ Inlet Concentration: _____ Outlet Concentration: _____

Equipment is used for: material transfer or discharge control equipment.

Pressure monitoring device - Manufacturer: _____ Range: _____ Normal: _____

Is there an airlock? yes no Expected material catch (tons/year)? _____

Is there additional control equipment? no yes If yes, attach separate data sheet.

Emissions Discharge: Concentration _____ gr/dscf Quantity: _____ tons per year

FAN DATA:

Inlet Duct Size: _____ Outlet Duct Size: _____

Blade Diameter: _____ Blade Width: _____ Blade RPM: _____

Normal Operating Parameters: CFM: _____ Static Pressure Rise: _____

Manufacturer: _____ Model Number: _____ Voltage: _____

DRIVE DATA:

Horsepower: _____ RPM: _____ Speed Ratio: _____

CYCLONE DIMENSIONS:

D _____ (or L x W if rectangular)

d1 _____ (or L x W if rectangular)

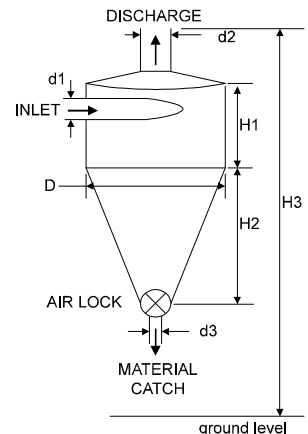
d2 _____ (or L x W if rectangular)

d3 _____ (or L x W if rectangular)

H1 _____

H2 _____

H3 _____



INSTRUCTIONS FOR CYCLONE SEPARATORS & PNEUMATIC TRANSFER EQUIPMENT

Use of this form will assist in review and approval for equipment or processes utilizing a cyclone separator to collect particulate matter emissions or as a pneumatic transfer device. The information requested on the reverse side of this form is necessary for SWCAA to evaluate whether your proposal can comply with federal, state, and local requirements. It does not necessarily mean the Notice of Construction (NOC) will be approved as submitted. Your NOC will be approved or denied only after submittal and evaluation of all required information. However, the time required to evaluate your application will be significantly shortened if the information you submit is complete.

General Information to be Submitted

1. A general Notice of Construction cover sheet should accompany all applications.
2. The concentration of particulate matter should be identified for both the inlet and discharge points.
3. The particulate matter should be evaluated to determine if it is a toxic as identified in WAC 173-460 "Controls for New Sources of Toxic Air Pollutants".
4. The maximum flow rates of the contaminated air streams in standard cubic feet per minute. Provide the basis or source of this information.
5. Drawings to show the location of the blower, duct system, location of cyclone, distance to property boundaries and other control equipment such as baghouses or other discharge points.
6. Calculations to show how the blower and cyclone were sized to deliver the amount of flow required in the system.
7. A process and instrumentation diagram for the process stream showing the types and locations of meters, gauges, feedback controllers, regulators and recorders, etc. as applicable.
8. A plot plan showing the location and neighborhood of the proposed project including distance to adjacent property lines and elevation of discharge stack.
9. A copy of the Operations and Maintenance (O&M) Manual for all control equipment.
10. The method of indicating and recording hours of operation.
11. A copy of the fan curve for the blower or fan.
12. A description of the use of the cyclone, the operational characteristics such as intermittent or full time, any particle size distribution of the contaminants in the air stream, and a verbal distinction between air flow and material flow in cfm or quantity handled.