CYCLONE SEPARATORS & PNEUMATIC TRANSFER EQUIPMENT
(Instructions on Back)

APPLICANT: _____________________________________________________________ NOC# ______________

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 _______________

SWCAA FORM NO. 10 Revised 7/25/2003
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.
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.