Siskiyou County Air Pollution Control District
Supplemental Application Form

PROCESS(ES) SERVED BY A CYCLONE/INERTIAL SEPARATOR

This form must be accompanied by a completed Application for Authority to Construct and Permit to Operate form.

PERMIT TO BE ISSUED TO:
LOCATION WHERE THE EQUIPMENT WILL BE OPERATED:

- Process cyclone serves: _____
- Type of material collected by the cyclone: _____
- Density of material collected by the cyclone: _____(lbs/ft^3)
- Maximum daily quantity of material collected by the cyclone: _____(lbs)
- Maximum daily process weight for operation served by the cyclone: _____(tons)
- Maximum Operating Schedule: _____ (hrs/day), _____ (days/week), _____ (weeks/yr)

CYCLONE DESCRIPTION

Cyclone Data	Manufacturer:	Model No.:
	Control Efficiency: (%) PM ☐ Manufacturers Guarantee; ☐ Estimate	
	Control Efficiency: (%) PM10 ☐ Manufacturers Guarantee; ☐ Estimate	
	Exhaust PM10 Emission Conc.: (gr/dscf) ☐ Manufacturers Guarantee; ☐ Estimate	
Blower/Fan Data	Manufacturer:	Model No.:
	Maximum Power Rating (hp)	Volumetric Air Flow Rate: (dscfm)

ADDITIONAL INFORMATION

If the cyclone serves as a precleaner to a high efficiency particulate control device such as a baghouse, venturi scrubber, an ESP, etc., then indicate type of high efficiency particulate control device used _____

Cyclone Type	☐ 2D-2D; ☐ High Efficiency; ☐ High Volume; ☐ 1D-3D (Texas A & M)
Cyclone Configuration	☐ Single; ☐ Multicyclones in Parallel; ☐ Multicyclones in Series
Cyclone Classification	☐ Tangential Entry; ☐ Axial Flow Entry; ☐ Bottom Inlet Entry
Dust Discharge Collection System	☐ Screw Feeder; ☐ Hopper/Drum Collector; ☐ Rotary Valve; ☐ Manual Collection; ☐ Slide Gate; ☐ Air Lock System; ☐ Rack & Pinion Gate; ☐ Others _____

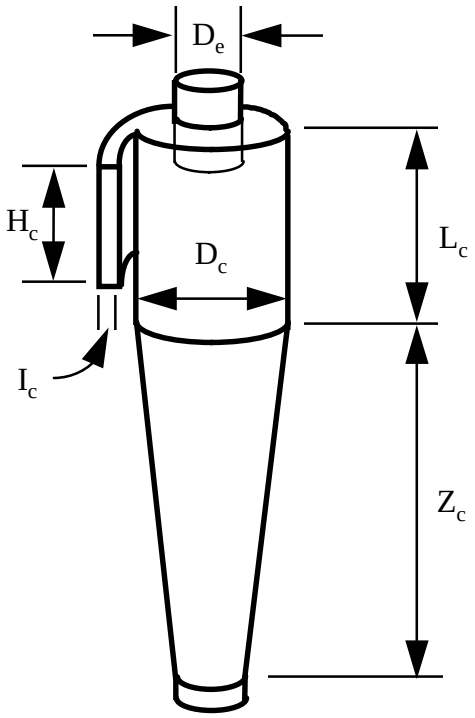
Pressure drop across the Cyclone (if known) _____ (in inches of H_2O)

EQUIPMENT SERVED BY THE CYCLONE/INERTIAL SEPARATOR

Description Indicate the type of equipment that will be served by the cyclone/inertial separator, such as: Rip saw, drill, router, hammermill, grain cleaner, storage bin, etc.	Manufacturer	Model No.	Power Rating (Horsepower) or Storage Capacity (Cubic Feet) Indicate the horsepower rating if the equipment is powered by an electric motor or indicate the maximum storage capacity if the equipment is a storage bin/silo.

If available, please submit a copy of the manufacturer's specification sheet for the proposed cyclone/inertial separator.

EQUIPMENT SERVED BY THE CYCLONE/INERTIAL SEPARATOR
CYCLONE DIMENSION WORKSHEET



L_c ..... Cylinder Height = _____ ft/in (Circle one)

Z_c ..... Cone Height = _____ ft/in (Circle one)

D_c ... Cylinder Diameter = _____ ft/in (Circle one)

D_e .. Exit Tube Diameter = _____ ft/in (Circle one)

H_c .... Input Duct Height = _____ ft/in (Circle one)

I_c ..... Input Duct Width = _____ ft/in (Circle one)

On the following page, draw a diagram of the proposed system with as many details as possible. Include pictures and flow direction, flow pressures, flow rates, etc. Attach any information to help clarify process.