

SHASTA COUNTY DEPARTMENT OF RESOURCE MANAGEMENT
AIR QUALITY MANAGEMENT DISTRICT

1855 PLACER STREET, SUITE 101, REDDING, CA 96001
VOICE (530)225-5674/FAX (530)225-5237

SUPPLEMENTAL INFORMATION: CYCLONES

Company Name _____

Provide the following information with each application for an Authority to Construct or Permit to Operate.

1. **Equipment Location Drawing.** The drawing or sketch submitted must be dimensioned and must show at a minimum the following:
 - a. The property involved and outlines of all buildings. Identify property lines plainly.
 - b. Location and identification of each piece of equipment the exhaust system is to serve.
 - c. Location of cyclone and associated ductwork. Use lines to show ducts and include any outlines of the cyclone and any pre-cleaner units.
2. **Equipment Description.** Supply the following information:
 - a. A description of the disposal of the collected contaminants.
 - b. The expected efficiency of the baghouse in controlling the types of air contaminants involved and substantiating data.
 - c. The manufacturer's brochure describing the equipment.
 - d. Include these specifications for the fan: (1) make, (2) model, (3) size, (4) power rating, and (5) volume of air to be handled (cubic feet/minute).
3. **Cyclone Drawing.** Note these specifications on the drawing on page 2:
 - a. Overall width, height, and shape of the cyclone.
 - b. Sizes and shape of all connected ductwork and hoppers or other parts used to contain the collected materials.
4. **Description of the Process.** Provide the following specifications and drawings:
 - a. The materials processed through this cyclone.
 - b. The process rate of materials entering the cyclone (in lbs/hr or grains/dscf).
 - c. The flow of materials (use a separate flow diagram or the drawings accompanying the application).
5. Cyclone Manufacturer _____
6. Model Number _____ 7. Size _____
8. Type _____ 9. Capacity _____
10. What is the pressure drop (in inches of water) across the unit at design conditions? _____

SUPPLEMENTAL INFORMATION: CYCLONES

Cyclone #				
Specs				
CFM				
Hc				
Hb				
Hg				
Ht				
Db				
Dc				
De				
Di				
Effic. Rate				
Waste From				
Df				
RPMf				
PDf				
HPm				
RPMm				
PDm				
Make				
Model				

KEY: **D** = Diameter, **H** = Height, **HP** = Horsepower, **PD** = Pulley Diameter,
RPM = Revolutions/minute, **b** = bottom, **c** = cyclone, **e** = exit, **f** = fan,
g = ground, **i** = intake, **m** = motor, **t** = top

Filer's Printed Name: _____

Signature: _____ Date: _____

NOTICE: After the Authority to Construct is granted, any deviation from approved plans is not permitted without first securing additional approval from the Air Pollution Control Officer. As stated in the Health and Safety Code Sections 41510, 41511, and 42304, the Air Quality Management District shall make random audits on submitted data to insure the appropriateness of such data. The willful submission of false or inaccurate data constitutes a misdemeanor per Health and Safety Code Section 42400.