

DISTRICT HEADQUARTERS

380 Sierra College Drive, Suite 220
Grass Valley, CA 95945
(530) 274-9360 / FAX: (530) 274-7546
www.myairdistrict.com

NORTHERN FIELD OFFICE

257 E. Sierra, Unit E
Mailing Address: P.O. Box 2227
Portola, CA 96122
(530) 832-0102 / FAX: (530) 832-0101

**INFORMATION REQUIREMENTS FOR DISTRICT SPECIFIC QUESTIONS
APPLICATION FOR
AUTHORITY TO CONSTRUCT AND/OR PERMIT TO OPERATE**

CYCLONES

A separate application is required for each distinct operation which consists in whole, or in part, of equipment, the use of which may cause the issuance of any air contaminant, for which emission limits have been established by the Northern Sierra Air Quality Management District.

Such an operation may consist of one individual piece of equipment or a group of two or more items including control equipment.

Submit the following information with your application for an authority to construct and permit to operate:

- 1' **FACILITY LOCATION MAP:** Provide a copy of a U.S. Geological Map with the facility location clearly shown.

2. **EQUIPMENT LOCATION DRAWING:** The drawing or sketch submitted must show at a minimum the following:
 - a. The property involved and outlines and heights of all buildings on it. Identify property lines plainly. Show the location of the property with respect to streets and all adjacent properties. Identify adjacent properties. Show location of all buildings outside the property that are within 150 feet of the equipment involved in the application.
 - b. Location and identification of the proposed equipment on the property. Location and identification of each piece of equipment the exhaust system is to serve.
 - c. Location of the cyclone and associated ductwork. Use lines to show ducts and include the outlines of the cyclone and any pre-cleaners.

3. **DESCRIPTION OF OPERATION:** The application must be accompanied by a written description of each operation to be carried out in the equipment. The description must be complete and in detail concerning all operations. Particular attention must be given to explaining all stages of the operation where the discharge of any materials might contribute in any way to air pollution. All obtainable data must be supplied concerning the nature, volumes, particle sizes, weights, concentrations and height of emission point above ground level, of all types of air contaminants that may be discharged at each stage in the operation. Describe emissions of a fugitive nature.

4. **DESCRIPTION OF EQUIPMENT:** The following information must be submitted:
- a. Make, model, serial number, size, type and capacity of the cyclone.
 - b. For the fan, state the make, model, serial number, power rating, size and volume of air (cubic feet per minute) to be handled.
 - c. Describe the means of disposal of the collected air contaminants.
 - d. State pressure drop across the cyclone at design specifications.
 - e. State the efficiency of the cyclone.
 - f. Submit the manufacturer's brochure describing the equipment installed.

NOTE: When commercial equipment is to be installed, the manufacture's catalog describing the equipment may be submitted in lieu of the parts of #4 & 5 that it covers.

After the authority to construct is granted for any equipment, deviations from the approved plans are not permissible without first securing additional approval for the changes from the Northern Sierra Air Quality Management District.

5. **DRAWING OF CYCLONE:** Complete the attached drawing with the following specifications:

- a. Overall width, height and shape of cyclone.
- b. Sizes and shape of all connected ductwork and hoppers or other parts used to contain the collected materials.

4. **DESCRIPTION OF PROCESS:**

- a. Specify the materials processed through this cyclone.
- b. Specify process rate of materials entering the cyclone (lbs/hr or grains/dscf).
- c. Specify the hours per day, days per week and weeks per year the cyclone is to be used.
- d. Show the flow of materials either on a separate flow diagram or on the drawings accompanying the application.