

SUPPLEMENTAL INFORMATION: BAGHOUSE

Submit the following information with your application for an Authority to Construct:

1. EQUIPMENT LOCATION DRAWING - The drawing or sketch submitted must show the following:
 - a. The property involved, with outlines and heights of all buildings. Identify property lines plainly.
 - b. Location and identification of each piece of equipment the baghouse is to serve.
 - c. Location of the baghouse and associated ductwork. Include the outlines of the filter units, pre-cleaners, and any equipment the exhaust system is to serve.
2. DESCRIPTION OF EQUIPMENT - The following information and drawings must be submitted:
 - a. Make, model, size, type and capacity of the baghouse.
 - b. All data and calculations used in choosing or designing the baghouse.
 - c. Describe the means of disposal of the collected air contaminants.
 - d. Expected temperature of gases/air entering the filter units.
 - e. Expected efficiency of the baghouse in controlling the types of air contaminants involved. Supply data to substantiate.
 - f. State pressure drop (inches of water) across the unit at design conditions.
 - g. Specify materials from which filter cloths are to be made. State total filtering area. State the air to cloth ratio.
 - h. Describe bag cleaning procedure, including the means used for preventing losses when cleaning or emptying the filter units.
 - i. Show locations of all fans or blowers. Include the following specifications for each fan and motor:
 - Fan: Make, model and size. State volume of air (cubic feet per minute) to be handled.
 - Motor: Specify horsepower.
 - j. Submit the baghouse manufacturer's catalog or specifications.
3. ESTIMATE OF EMISSIONS
 - a. Provide estimates of pollutant concentrations and mass emission rates for pollutants listed in c. below, from each emissions unit or air pollution control device. Fugitive emissions from uncontrolled sources should also be quantified.
 - b. State any combustion modifications or control devices employed to reduce emissions. State estimated reduction.

- c. Best Available Control Technology (BACT) is required if the potential to emit exceeds one or more of the following limitations on a daily basis:

Particulate Matter (PM-10)	80	lb/day
Nitrogen Oxides	25	lb/day
Sulfur Oxides	80	lb/day
Reactive Organic Compounds	25	lb/day
Carbon Monoxide	500	lb/day

4. DESCRIPTION OF PROCESS

- a. Specify the materials processed through the baghouse.
- b. Specify process rate of materials entering the baghouse in lbs/hr or grains/dscf.
- c. State baghouse operation time in hrs/day, days/week, & wks/yr.
- d. Show the flow of materials either on a separate flow diagram or on the accompanying drawings.

After an Authority to Construct is granted for any equipment, alterations from the approved plans are not permissible without first securing additional approval for the changes from the Air Pollution Control Officer.

Further information or clarification concerning permits can be obtained by calling (530) 332-9400.