

DISTRICT HEADQUARTERS

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**INFORMATION REQUIREMENTS FOR APPLICATION FOR
AUTHORITY TO CONSTRUCT/PERMIT TO OPERATE (AC/PO)**

ASPHALT BATCH PLANTS

A separate application is required for each distinct operation which consists in whole, or in part, of equipment, the 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 AC/PO:

1. **Facility Location Map:** Provide a copy of a USGS map with the facility location clearly shown.
2. **Equipment Location Drawing:** The drawing or sketch submitted must show at least the following:
 - a. Location and identification of the proposed equipment on the property including stock piles, conveyors, dryers, screen/pug mill, product holding bins, control room, air pollution control devices, duct work, filter units, pre-cleaners, any equipment the exhaust system is to serve, generators, and roads in and out.
 - b. Supply a block flow diagram showing:
 1. Bins, conveyors, dryers, elevator, screen, pug mill, air pollution control devices, fans/blowers, etc.
 2. Capacities of all bins.
 3. Sizes of all conveyors.
 4. State make, model, size, and type for either the entire unit or its major parts. (Control efficiency: verify source of data, e.g. calculations, manufacturer's specifications, source test.) Provide copy of manufacturer's catalog.
 5. For continuous processes, show the flow of materials.
3. **Description of Operation:** The application must be accompanied by a written description of each operation to be carried out in the equipment.
4. **Description of Processes:**
 - a. Specify the estimated annual asphalt production in tons.
 - b. Specify the maximum hourly production capacity of the plant in tons.
 - c. State if the plant is temporary or permanent. If temporary, state the period proposed for use.
 - d. Specify the hours per day, days per week, and weeks per year the facility is to be operated and the total anticipated hours per year and days per year.

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Description of Processes continued...

- e. State the materials used in surfacing the plant area and plant roads.
- f. Detail type and total weight of each material charged into the equipment or the operation production and raw material usage on the basis of pounds per hour, day, month and year (such as *tons per year*).
- g. State how many acres the facility covers, including piles and all areas that loaders traverse, etc.
- h. Indicate fuel type and usage: for gases, cubic feet per hour; for fuel oil, grade and gallons per hour; for solid fuels, type and pounds per hour. Indicate for burners: make, model, size, type, number of burners and capacity range of each burner (from minimum to maximum).
- i. State the type of trucks or trailers (single dump, flat bed, or bottom dump tandems, etc.) average number of wheels per truck, average net load per truck, and average gross weight per truck.
- j. State the number of miles (to the nearest ¼ mile) that haul trucks will traverse on unpaved roads (from the entrance off a paved road to the truck load-out area and back to the paved road.) Provide the maximum vehicle speed that will be allowed on unpaved haul roads.
- k. Provide copies of the batch plant manufacturer's performance specifications. This will include rated capacities, power source specifications, fuel type and consumption, whether electrically or hydraulically powered, etc.
- l. Provide and estimate of the fuel consumption rate (gal/hr), estimated annual fuel consumption rate, and fuel type used to fire the aggregate dryer (excluding fuel for trucks, loaders, and mobile equipment).
- m. If the plant uses any stationary engines, then provide the engine make, model, serial number, engine horsepower, fuel type and hourly fuel consumption for each such unit on the premises.

5. **Drawing of Equipment:** Supply an assembly drawing, dimensioned and to scale, in plan, elevation and as many sections as are needed to show clearly the design and operation of the equipment and the means by which air contaminants are controlled. Show the size and shape of the equipment. Show exterior and interior dimensions and features. Note: When commercial equipment is to be installed, the manufacturer's catalog describing the equipment may be submitted in lieu of the parts of #5 that it covers.

6. **Air Pollution Control Equipment:** Provide information for the following:

For each Baghouse:

- a. Make, model, serial number, size, type and capacity of the baghouse.
- b. All data and calculations used in choosing or designing the baghouse, if not the standard unit integrated into the plant per manufacturer's specification.
- c. Describe the means of disposal of the collected air contaminants.
- d. Expected temperatures of gases or air entering the filter units.
- e. Expected efficiency of the baghouse in controlling the types of air contaminants involved. Expected particulate emission rate. Supply data to substantiate.
- f. State pressure drop (inches of water) across the unit at design conditions.
- g. Specify materials from which filter clothes are to be made. State total filtering area and the number of bags.
- h. State the air to cloth ratio.
- i. Describe bag cleaning procedure, including the means used for preventing losses when cleaning or emptying the filter units.

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Baghouse continued...

- j. Include the following specifications: Fan make, model, serial number, size and volume flow rate of air (cfm) to be handled; motor make, model, serial number and horse power.
- k. Submit the manufacturer's catalog or specifications for the equipment installed.

For each Cyclone:

- l. Make, model, serial number, size, type and capacity of the cyclone.
- m. Describe the means of disposal of the collected air contaminants.
- n. State pressure drop across the cyclone at design specifications.
- o. State the efficiency of the cyclone.
- p. Submit the manufacturer's brochure describing the equipment installed, including a dimensioned drawing showing overall width, height, dimensions of conical section, inlet and exit.
- q. Sizes and shape of all connected ductwork and hoppers or other parts used to contain the collected materials.

For Other:

- r. If some other type of air pollution control equipment is used on the dryer and/or screen/pug mill, provide all information necessary to verify the correct sizing and determine the control efficiency. Describe the system used to deal with collected dust and how it will be utilized or disposed of.
- s. Include the locations and number of spray nozzles used on all aggregate conveyors on the drawing or sketch.
- t. Specify what dust control technique will be used on unpaved haul roads (e.g. water truck spraying down roads at some specified frequency).
- u. Describe what type of dust controls will be used on piles and/or bins.

NOTE: *After the Authority to Construct is granted for any equipment, deviations from the approved plans are not permissible without first obtaining additional approval for the changes from the Northern Sierra Air Quality Management District.*

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