

FORM CA100
CARBON ADSORPTION UNITS

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

1. **EQUIPMENT LOCATION DRAWING.** The drawing or sketch submitted must show at least the following:
 - a. The property involved and outlines and heights of all buildings on it. Identify property lines plainly.
 - b. Location of carbon adsorption unit and any ductwork associated with it. Include the outlines of any equipment the unit is to serve.

2. **FLUE GAS CHARACTERISTICS.** Supply the following information about the gas being treated:
 - a. Gas flow rate (acfm) and temperature.
 - b. Types and amounts (concentration) of air contaminants present.

3. **CARBON ADSORPTION UNIT.** Supply the following information and drawings:
 - a. Make, model, size, type, and capacity of the carbon adsorption unit.
 - b. All data and calculations used in choosing or designing the carbon adsorption unit.
 - c. Procedures for regenerating the carbon adsorption bed.
 - d. Expected efficiency of the carbon adsorption unit in controlling the types of air contaminants involved. Supply data to substantiate.
 - e. Stack height and diameter.

4. **BOILER OR HEATER USED.** Supply the following information and drawings:
 - a. Make, model, and size of the boiler.
 - b. Type of fuel to be used.
 - (1) Gas - specify gas type and cubic feet per hour.
 - (2) Fuel - specify oil grade and gallons per hour.
 - c. Number of hours per day, days per week, and weeks per year boiler is to be operated.

Note: for item numbers 3 and 4, when standard commercial equipment is to be used, the manufacturer's catalog describing the equipment should be submitted.