

FORM EP100
ELECTROSTATIC PRECIPITATOR

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 and identification of the electrostatic precipitator on the property, showing ductwork and any pre-cleaners.

2. **EQUIPMENT INFORMATION:** Supply the following information (*when standard commercial equipment is to be installed, the manufacturer's catalog describing the equipment should be submitted*):
 - a. Make, model, size, type, and capacity of the precipitator (include horsepower rating of all associated fans/blowers)
 - b. All data and calculations used in selecting or designing the electrostatic precipitator.
 - c. Means of disposal of the collected air contaminants and the procedure to be used for preventing losses when cleaning the precipitator.
 - d. Expected temperatures of air gases entering the precipitator.
 - e. Expected efficiency of the precipitator in controlling the types of air contaminants involved. Supply data to substantiate.
 - f. State pressure drop (inches of water) across each section.
 - g. State the apparent electrical resistivity of the material to be collected.
 - h. Describe means of removing collected material from collecting plates.
 - i. Specify the voltage applied to all electrodes and collecting surfaces and total power consumption.
 - j. Supply a drawing, dimensioned and to scale in both plan and elevation, which shows at least the following:
 - (1) Overall size and shape of the precipitator.
 - (2) Type, size, shape, arrangement and spacing of the electrodes and collecting surfaces.