



# Louisville Metro Air Pollution Control District

## Control Device Permit Application Form AP-300E

### Electrostatic Precipitator

**Deliver application to:**

701 W. Ormsby Ave. Suite 303  
Louisville, KY 40203

(502) 574-6000  
FAX: (502) 574-5137  
[www.louisvilleky.gov/apcd](http://www.louisvilleky.gov/apcd)  
[airpermits@louisvilleky.gov](mailto:airpermits@louisvilleky.gov)

Plant Name:

Plant ID:

Date of construction, modification,  
installation, or operation:Process equipment associated  
with this control equipment:**Equipment Description**

Control ID #

Manufacturer:

Model:

Precipitator  
Type

- Wet, single stage     Dry, single stage  
 Wet, two-stage     Dry, two-stage

Air flow rate:

Pressure drop:

Gas velocity:

Residence time:

seconds

Draft:

 Forced Induced

Pollutant removal efficiency: %

Describe how the removal efficiency was determined:

*(If other than Manufacturer's specification, include documentation supporting the claimed efficiency)***Attach a copy of the manufacturer's spec sheets for the electrostatic precipitator with this application***List the contaminants in the waste stream that are removed by the precipitator*

Contaminant	CAS # (if applicable)	Gas Stream Concentration

Describe how the contaminant material is collected and the ultimate disposition of this material.

## **Instructions for Electrostatic Precipitator**

### **Form AP-300E**

An electrostatic precipitator removes particulate matter from a gas stream by passing the gas stream through discharge electrodes and collection plates. Most particulates become charged and are collected on the plates. A variety of approaches can be used to dislodge and remove the collected particulates.

#### **General Information**

**Plant Name** Enter the plant name.

**Plant ID** This is the identification number assigned to the source by the District. If this application is for a new source for which an ID has not been assigned, leave this blank.

#### **Equipment Description**

**Manufacturer** Enter the name of the company that manufactures the precipitator equipment.

**Model** Enter the model number of the equipment to be installed.

**Precipitator type** Check the box representing the type of precipitator being applied for.

**Airflow** Enter the design airflow through the precipitator, and the nominal pressure drop across the unit. On the next line, enter the gas velocity through the unit (magnitude and units), the residence time (magnitude and units), and the removal efficiency. If the efficiency varies significantly as a function of particle size, attach information that describes this variation.

**Contaminant Removal** List the materials that are removed from the airstream by the precipitator. If a CAS registration number exists for the material list that as well. Finally, list the typical concentration of the contaminant in the exhaust gas stream.