



Louisville Metro Air Pollution Control District

Control Device Permit Application Form AP-300M

Flare

Deliver application to:

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

(502) 574-6000
FAX: (502) 574-5137
www.louisvilleky.gov/apcd
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:						
<table style="width:100%"> <tr> <td style="width:33%"><input type="checkbox"/> Non-assisted</td> <td style="width:33%"><input type="checkbox"/> Steam Assisted</td> <td style="width:33%"><input type="checkbox"/> Elevated</td> </tr> <tr> <td><input type="checkbox"/> Air Assisted</td> <td><input type="checkbox"/> Other:</td> <td><input type="checkbox"/> Ground level</td> </tr> </table>	<input type="checkbox"/> Non-assisted	<input type="checkbox"/> Steam Assisted	<input type="checkbox"/> Elevated	<input type="checkbox"/> Air Assisted	<input type="checkbox"/> Other:	<input type="checkbox"/> Ground level	
<input type="checkbox"/> Non-assisted	<input type="checkbox"/> Steam Assisted	<input type="checkbox"/> Elevated					
<input type="checkbox"/> Air Assisted	<input type="checkbox"/> Other:	<input type="checkbox"/> Ground level					
Flare Design							
Flare height -	Flare diameter -						
Flame temperature -	°						
Steam or air injection rate:	Steam or air injection pressure:						
Exhaust gas flow rate: Minimum -	Maximum -						
	Heat Content -						
Attach a copy of the manufacturer's spec sheets for the flare with this application							
<i>List the contaminants in the waste stream that are removed by the flare</i>							
Contaminant	CAS # (if applicable)	Gas stream concentration	Destruction Efficiency				
			%				
			%				
			%				
			%				
Describe how the destruction efficiency was determined: <i>(If other than Manufacturer's specification, include documentation supporting the claimed efficiency)</i>							
Pilot Flame Information							
Pilot flame fuel:	Fuel use rate:						
Describe pilot flame monitor and safety shutoff:							

Auxiliary Fuel information			
Describe the operating conditions the indicate the use of auxiliary fuel:			
Fuel	<input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane <input type="checkbox"/> #2 fuel oil <input type="checkbox"/> Other:	Maximum Hourly Fuel Consumption:	/ hour
		Nominal Annual Fuel Consumption:	/ year

Instructions for Flare

Form AP-300M

A flare works by operating a (generally) inflammable pollutant in an open flame, with or without the addition of supplementary fuel or the injection of steam or air to increase the combustion temperature.

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 flare equipment

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

Flare design Check the appropriate boxes to indicate how the flare operates and where it is located. Then enter the physical dimensions of the flare and its nominal operating temperature, indicating whether this is measured in Fahrenheit or Celsius degrees.

Steam or air injection If the flare operates with air or steam injection, enter the injection rate (*e.g.* in lb/hr) and the pressure at which the air or steam is injected.

Gas flow Enter the minimum and maximum rate at which the exhaust gas to be flared will be supplied to the flare, and the nominal heat content of the exhaust gas.

Contaminant list List the pollutants that are in the exhaust stream sent to the flare. If a CAS registration number exists for the material, list that as well. List the typical concentration of the contaminant in the exhaust gas stream, and the expected destruction efficiency of the flare.

Efficiency determination Indicate how the destruction efficiency was determined. (*e.g.* manufacturer's specification, calculation, stack test, *etc.*). Include appropriate documentation to support destruction efficiency claims.

Pilot Flame Information

Fuel Enter the fuel that is burned by the pilot flame for the flare.

Rate Enter the rate at which fuel is burned by the pilot flame.

Monitor and Safety Describe the flame monitor used at the pilot, whether the flare is shut down if this signal is lost, and procedures to reinitiate the flare, if necessary.

Auxiliary Fuel

Use of Auxiliary Fuel Describe the operating conditions that require the use of auxiliary fuel (other than for the pilot) when operating the flare.

Fuel type Check the box that corresponds to the type of auxiliary fuel used.

Consumption Indicate the maximum amount of fuel that can be burned per hour and the annual limit on use of this fuel if one exists.