



# Louisville Metro Air Pollution Control District

## Control Device Permit Application Form AP-300G

### Reducing System

Deliver application to:  
850 Barret Avenue  
Louisville, KY 40204

(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 #
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Manufacturer:	Model:
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Type of system	<input type="checkbox"/> Selective catalytic	<input type="checkbox"/> Selective non-catalytic	<input type="checkbox"/> Ammonia injection
	<input type="checkbox"/> Non-selective catalytic	<input type="checkbox"/> Other:	

Exhaust gas flow rate:	Minimum - /	Maximum - /	Pressure drop -
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**Attach a copy of the manufacturer's spec sheets for the reduction system with this application**

List the contaminants in the waste stream that are removed by the reduction system:

Contaminant	CAS # (if applicable)	Gas stream concentration	% Destruction

Describe how the destruction efficiency was determined:  
*(If other than Manufacturer's specification, include documentation supporting the claimed efficiency)*

### Operational Information

Ammonia/Urea Injection:	Operating Temperature - °	Allowable ammonia slip - ppm
	Describe how slip is determined:	
	Describe how ammonia injection rate is monitored and controlled:	

Catalytic Reduction	Operating temperature range -- °
	Catalyst used:
	Reducing agent used:
	Reducing agent usage rate:
	Describe how waste from this operation is handled:

## Instructions for Reducing Systems

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A reducing system works by (generally) reacting the pollutant-containing gas stream with a reducing agent, frequently in the presence of a catalyst. These systems must be carefully adjusted to minimize the release of unreacted reducing agents into the exhaust stream.

#### 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 reducing equipment.

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

**System type** Check the appropriate box to indicate the type of reducing system being proposed.

**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 flow rate of the exhaust, and the nominal pressure drop across the reaction volume of the reducing system.

**Contaminant list** List the pollutants that are in the exhaust stream that are controlled by this system. 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.

**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.

**Operational Information** Complete the requested information for the type of system that is to be installed.