

Section G: Equipment Information					
Manufacturer:					
Model:					
Serial Number:					
Attach the Manufacturer's Specification Sheet for the Scrubber and any Removal Efficiency calculations.					
Section H: Contaminant Information					
Concentration of Each Contaminant in the Waste Gas, Vapor Pressure, Solubility in the Scrubbing Liquor, and Removal Efficiency					
If more than six contaminants are present, attach additional copies of this page as needed.					
Contaminant	CAS Number	Concentration in Waste Gas	Vapor Pressure	Solubility in Scrubbing Liquor	Removal Efficiency
		% by Weight	psi at ° F	<input type="checkbox"/> Insoluble <input type="checkbox"/> Slightly Soluble <input type="checkbox"/> Highly soluble <input type="checkbox"/> Miscible <input type="checkbox"/> Not Applicable	%
		% by Weight	psi at ° F	<input type="checkbox"/> Insoluble <input type="checkbox"/> Slightly Soluble <input type="checkbox"/> Highly soluble <input type="checkbox"/> Miscible <input type="checkbox"/> Not Applicable	%
		% by Weight	psi at ° F	<input type="checkbox"/> Insoluble <input type="checkbox"/> Slightly Soluble <input type="checkbox"/> Highly soluble <input type="checkbox"/> Miscible <input type="checkbox"/> Not Applicable	%
		% by Weight	psi at ° F	<input type="checkbox"/> Insoluble <input type="checkbox"/> Slightly Soluble <input type="checkbox"/> Highly soluble <input type="checkbox"/> Miscible <input type="checkbox"/> Not Applicable	%
		% by Weight	psi at ° F	<input type="checkbox"/> Insoluble <input type="checkbox"/> Slightly Soluble <input type="checkbox"/> Highly soluble <input type="checkbox"/> Miscible <input type="checkbox"/> Not Applicable	%
		% by Weight	psi at ° F	<input type="checkbox"/> Insoluble <input type="checkbox"/> Slightly Soluble <input type="checkbox"/> Highly soluble <input type="checkbox"/> Miscible <input type="checkbox"/> Not Applicable	%
Section I: Gas Stream Information					
Maximum Inlet Volumetric Gas Flow Rate:			acfm at ° F		
Maximum outlet Volumetric Gas Flow Rate:			acfm at ° F		
Pressure Drop Across Scrubber:			inches water		

Section J: Scrubbing Liquor Information		
Scrubbing Liquor Components		
If more than five components are present, attach additional copies of this page as needed.		
Scrubbing Liquor Component	CAS Number	Concentration
		% by Weight
		% by Weight
		% by Weight
		% by Weight
		% by Weight
Scrubbing Liquor Flow Rate: gallons/minute		
pH Operating Range:		
Is the scrubbing liquor recirculated? <input type="checkbox"/> YES <input type="checkbox"/> NO		
Is there more than one operating scenario for the scrubber? <input type="checkbox"/> YES <input type="checkbox"/> NO		
If YES, complete the following information.		
Alternate Operating Scenario Scrubbing Liquor Flow Rate: gallons/minute		
Alternate Operating Scenario pH Operating Range:		
Is the scrubbing liquor recirculated in the alternate operating scenario? <input type="checkbox"/> YES <input type="checkbox"/> NO		
Describe how spent scrubbing liquor is treated or disposed of:		
Section K: Operational Information		
Scrubber Type: <input type="checkbox"/> Spray Tower <input type="checkbox"/> Ionizing <input type="checkbox"/> Fluidized Bed Scrubber <input type="checkbox"/> Venturi <input type="checkbox"/> Packed Bed <input type="checkbox"/> Tray Tower <input type="checkbox"/> Other (Specify):		
Scrubber Height: feet		
Scrubber Inside Diameter: feet		
Does the scrubber use packing ? <input type="checkbox"/> YES <input type="checkbox"/> NO		
If YES, complete the following information.		
Packing Type: <input type="checkbox"/> Berl Saddle <input type="checkbox"/> Pall Ring <input type="checkbox"/> Intalox Saddle <input type="checkbox"/> Tellerette <input type="checkbox"/> Raschig Ring <input type="checkbox"/> Marbles <input type="checkbox"/> Lesig Ring <input type="checkbox"/> Other (Specify):		
Packing Size: inch		
Packing Material:		
Height of Packing: feet		
Does the scrubber use trays, plates, or baffles ? <input type="checkbox"/> YES <input type="checkbox"/> NO		
Type of Impactor/Impingement: <input type="checkbox"/> Trays <input type="checkbox"/> Baffles <input type="checkbox"/> Plates <input type="checkbox"/> Other (Specify):		
Type of Perforation: <input type="checkbox"/> Holes <input type="checkbox"/> Adjustable Trays <input type="checkbox"/> Bubble Caps <input type="checkbox"/> Other (Specify): <input type="checkbox"/> Movable Discs		
Spacing Between Trays, Plates, or Baffles: inches		

Configuration: Counter - Current
 Co - Current
 Other (Specify):

Will a **mist eliminator** be installed? YES NO

If YES, complete the following.

Describe the mist eliminator:

Section L: Stack Information

Stack Height Above Grade: **feet**

Stack Exit Diameter: **feet**
(Provide stack dimensions if rectangular stack.)

Is a **stack cap** present? YES NO

Stack Configuration: Vertical Horizontal Downward – Venting
(Check all that apply) Other (Specify):

Stack Exit Gas Temperature: ° F	Stack Exit Gas Flow Rate: ACFM
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Distance to Nearest Property Line: **feet**

Describe nearest obstruction:

Height of Nearest Obstruction: feet	Distance to Nearest Obstruction: feet
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Are stack **sampling ports** provided? YES NO

Section M: Monitoring and Alarm Information

Are there any **alarms** associated with this scrubber? YES NO

If YES, complete the following.

If there are more than three alarms, attach additional copies of this page as needed.

Operating Parameter Monitored	Describe Alarm Trigger	Monitoring Device or Alarm Type	Does the Alarm Initiate an Automated Response?
		<input type="checkbox"/> Visual <input type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input type="checkbox"/> YES <input type="checkbox"/> NO Describe:
		<input type="checkbox"/> Visual <input type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input type="checkbox"/> YES <input type="checkbox"/> NO Describe:
		<input type="checkbox"/> Visual <input type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input type="checkbox"/> YES <input type="checkbox"/> NO Describe:

Section N: Additional Information

Attach potential emissions calculations with your application. If there are no emission calculations provided with the application, the LMAPCD will calculate the potential emission rates for this equipment. This will result in a delay in the issuance of the permit. The potential emission rates shall be based on operation at maximum equipment capacity. The annual potential emissions shall be based on 8,760 operating hours per year. All potential emission calculations shall represent pre-control emissions.

Is there any additional information pertinent to this application? YES NO

If yes, describe below: