

Section G: Equipment Information

Manufacturer:

Model:

Serial Number:

Attach the manufacturer's specification sheet for the adsorption equipment.**Section H: Adsorbent Information**

Describe adsorbent type and physical properties:

Breakthrough Capacity (pounds contaminant/100 pounds adsorbent):

Operating Temperature Range of Adsorbent: from ° F to ° F

Life Expectancy of Adsorbent:

Provide any necessary additional information regarding the adsorbent:

Section I: Adsorber Bed Information

Adsorbent Charge per Adsorber Vessel:

Number of Adsorber Vessels:

Configuration of Adsorber Vessels: Series Parallel Other (Specify):

Length of Mass Transfer Zone: feet

Attach basis of design for the length of the mass transfer zone calculation.

Adsorber Bed Cross Sectional Area: square feet

Adsorption Bed Depth: feet

Working Capacity of Adsorbent %

Section J: Regeneration InformationIs the adsorbent regenerated? YES NO*If the adsorbent is regenerated, complete the following information. If not, proceed to Section K.*

Predicted Regeneration Cycle:

Describe Regeneration Trigger:

Predicted Number of Times Adsorbent Will be Regenerated Before Replacement:

Regeneration Location: On-Site Off-Site*If regeneration is conducted on-site, complete the following information. If it is conducted off site, proceed to Section K*Type of Regeneration: Steam Electric Hot Air Other (Specify):*If steam regeneration is used, complete the following information. If not, proceed to Section K*

Available Steam for Regeneration: pounds of steam

Describe how the regeneration liquid is treated or disposed of:

Section K: Gas Stream Information				
Maximum Inlet Volumetric Gas Flow Rate:	acfm at	° F and	% moisture	
Maximum Outlet Volumetric Gas Flow Rate:	acfm at	° F and	% moisture	
Design Range of Pressure Drop Across Bed:	inches water			
Residence Time:	minutes			
Section L: Contaminant Information				
Will heat of adsorption potentially lead to temperature excursions? <input type="checkbox"/> YES <input type="checkbox"/> NO				
If YES, describe how temperature excursions will be handled:				
Contaminant	CAS Number	Percent Relative Saturation	Vapor Pressure	Removal Efficiency
		%	psi	%
		%	psi	%
		%	psi	%
		%	psi	%
		%	psi	%
Section M: Stack Information				
Stack Height Above Grade:	feet	Stack Exit Diameter:	feet	
		<i>(Provide stack dimensions if rectangular stack)</i>		
Is a stack cap present? <input type="checkbox"/> YES <input type="checkbox"/> NO				
Stack Configuration: <input type="checkbox"/> Vertical <input type="checkbox"/> Horizontal <input type="checkbox"/> Downward – Venting <i>(Check all that apply)</i> <input type="checkbox"/> Other (Specify):				
Stack Exit Gas Temperature:	° F	Stack Exit Gas Flow Rate:	ACFM	
Distance to Nearest Property Line: feet				
Describe Nearest Obstruction:				
Height of Nearest Obstruction:	feet	Distance to Nearest Obstruction:	feet	
Are stack sampling ports provided? <input type="checkbox"/> YES <input type="checkbox"/> NO				
Section N: Monitoring and Alarm Information				
Are there any alarms associated with this control device? <input type="checkbox"/> YES <input type="checkbox"/> NO				
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: