

Texas Commission on Environmental Quality
Table 15
Adsorbers

Equipment Information	
Emission Point Number (EPN) <i>(from Flow Diagram)</i> :	
Manufacturer:	Model No. <i>(if available)</i> :
Name of Abatement Device:	
Type of Air Contaminant Controlled:	
Gas Stream Characteristics	
Components	Mole %
Total Flow Rate (acfm)	
Design Maximum:	Average Expected:
Gas Stream Temperature (°F):	Operating Pressure (psia):
Material to be adsorbed <i>(chemical name of adsorbate)</i> :	
Adsorbent Characteristics	
Type of Adsorbent <i>(manufacturer and grade number)</i> :	
Bed Depth (ft):	Bed Volume (ft ³):
Saturation Capacity of Pollutant on Adsorbent (specify units):	
Length of Mass Transfer Zone (inches):	
Claimed adsorber control efficiency ¹ :	
Equilibrium Data	
Attach equilibrium adsorption isotherm for pollutant over adsorbent at estimate operating temperature.	
Regenerative Systems	
Residual change - weight of adsorbate remaining on adsorbent after regeneration (lbs adsorbate/lb adsorbent):	
Adsorption Time Per Bed (minutes):	
Regeneration Time Per Bed (minutes):	
Number of Beds:	

¹ Attach supporting documentation.

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Regenerative Systems <i>(continued)</i>
Describe disposition of contaminant after regeneration (or during desorption step):
Additional Information Required
Attach the following:
<input type="checkbox"/> Details regarding principle of operation.
<input type="checkbox"/> An assembly drawing (Front and Top Views) of the abatement device, dimensioned and to scale clearly showing the design, size, shape. If the devices have bypasses, safety valves, etc., include in drawing and specify when such bypasses are to be used and under what conditions.