

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**  
**Best Available Control Technology (BACT) Guideline**

**Source Category**

Source:	<b>Storage tank - External Floating Roof, Organic Liquids</b>	Revision:	<b>2</b>
		Document #:	<b>167.1.2</b>
Class:	<b>All</b>	Date:	<b>09/19/2011</b>

**Determination**

POLLUTANT	BACT 1. Technologically Feasible/ Cost Effective 2. Achieved in Practice	TYPICAL TECHNOLOGY
POC	<p>1. Vapor recovery system w/ an overall system efficiency <math>\geq 98\%</math><sup>a,T</sup></p> <p>2. BAAQMD Approved roof w/ liquid mounted primary seal and zero gap secondary seal, all meeting design criteria of Reg. 8, Rule 5. Also, no ungasketed roof penetrations, no slotted pipe guide pole unless equipped with float and wiper seals, and no adjustable roof legs unless fitted w/ vapor seal boots or equivalent<sup>a,T</sup></p> <p>Additionally, a dome is required for tanks that meet all of the following: 1) capacity greater than or equal to 19,815 gallons 2) located at a facility with greater than 20 tpy VOC emissions since the year 2000 and 3) storing a material with a vapor pressure equal to or greater than 3 psia (except for crude oil tanks that are permitted to contain more than 97% by volume crude oil).<sup>b</sup></p>	<p>1. Thermal Incinerator; or Carbon Adsorber; or Refrigerated Condenser; or BAAQMD approved equivalent<sup>a,T</sup></p> <p>2. BAAQMD Approved Roof and Seal Design<sup>a,T</sup></p>
NOx	<p>1. n/a</p> <p>2. n/a</p>	<p>1. n/a</p> <p>2. n/a</p>
SO <sub>2</sub>	<p>1. n/a</p> <p>2. n/a</p>	<p>1. n/a</p> <p>2. n/a</p>
CO	<p>1. n/a</p> <p>2. n/a</p>	<p>1. n/a</p> <p>2. n/a</p>
PM <sub>10</sub>	<p>1. n/a</p> <p>2. n/a</p>	<p>1. n/a</p> <p>2. n/a</p>
NPOC	<p>1. Vapor recovery system w/ an overall system efficiency <math>\geq 98\%</math><sup>a,T</sup></p> <p>2. Same as for POC above</p>	<p>1. Carbon Adsorber; or Refrigerated Condenser; or BAAQMD approved equivalent<sup>a,T</sup></p> <p>2. BAAQMD Approved Roof and Seal Design<sup>a,T</sup></p>

**References**

a. BAAQMD  
T. TBACT  
b. BAAQMD Application 22722, SCAQMD Regulation 1178 (1/1/04)