

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

**Source Category**

Source:	<i>Pumps</i>	Revision:	<b>4</b>
		Document #:	<b>137.1</b>
Class:	<i>All</i>	Date:	<b>01/18/06</b>

**Determination**

POLLUTANT	BACT 1. Technologically Feasible/ Cost Effective 2. Achieved in Practice	TYPICAL TECHNOLOGY
<b>POC</b>	1. 100 ppm expressed as methane measured using EPA Reference Method 21 <sup>a,T</sup>  2. 500 ppm expressed as methane measured using EPA Reference Method 21 <sup>a,T</sup>	1. Double Mechanical Seals w/ Barrier Fluid; Magnetically Coupled Pumps; Canned Pumps; Magnetic Fluid Sealing Technology; or Gas Seal System Vented to Thermal Oxidizer or Other BAAQMD Approved Control Device; all w/BAAQMD Approved Quarterly Inspection and Maintenance Program <sup>a,b,T</sup> 2. Double Mechanical Seals w/ Barrier Fluid, and BAAQMD Approved Quarterly Inspection and Maintenance Program <sup>a,b,T</sup>
<b>NO<sub>x</sub></b>	1. n/a 2. n/a	1. n/a 2. n/a
<b>SO<sub>2</sub></b>	1. n/a 2. n/a	1. n/a 2. n/a
<b>CO</b>	1. n/a 2. n/a	1. n/a 2. n/a
<b>PM<sub>10</sub></b>	1. n/a 2. n/a	1. n/a 2. n/a
<b>NPOC</b>	1. 100 ppm expressed as methane measured using EPA Reference Method 21 <sup>a,T</sup>  2. 500 ppm expressed as methane measured using EPA Reference Method 21 <sup>a,T</sup>	1. Double Mechanical Seals w/ Barrier Fluid; Magnetically Coupled Pumps; Canned Pumps; or Magnetic Fluid Sealing Technology; all w/ BAAQMD Approved Quarterly Inspection and Maintenance Program <sup>a,b,T</sup> 2. Double Mechanical Seals w/ Barrier Fluid, and BAAQMD Approved Quarterly Inspection and Maintenance Program <sup>a,b,T</sup>

## *References*

*a. BAAQMD*

*b. EPA NSPS: 40 CFR 60 Subpart GGG (Petroleum Refineries) and 40 CFR 60 Subpart VV (Chemical Plants)*

*T. TBACT*