

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

**Source Category**

|         |  |             |                 |
|---------|--|-------------|-----------------|
| Source: | <i>Hot Mix Asphalt, Batch Mix Facilities</i> | Revision:   | <b>4</b>        |
|         |  | Document #: | <b>10.1</b>     |
| Class:  | <b>All</b>                                   | Date:       | <b>06/28/00</b> |

**Determination**

| POLLUTANT        | BACT<br>1. Technologically Feasible/ Cost Effective<br>2. Achieved in Practice  | TYPICAL TECHNOLOGY   |
|------------------|---|--|
| POC              | 1. Afterburner w/ $\geq 0.3$ sec. retention time at $\geq 1400^\circ\text{F}$ <sup>a,T</sup><br>2. 0.03 pounds/ton asphaltic concrete produced <sup>b</sup> | 1. BAAQMD Approved Design and Operation <sup>a,T</sup><br>2. Good Combustion Practice <sup>b</sup> |
| NOx              | 1. n/d<br>2. 12 ppmv @ 15% O <sub>2</sub> Dry [36 ppmv @ 3% O <sub>2</sub> Dry] <sup>c,d,e</sup>  | 1. n/d<br>2. Natural Gas + Low NOx Combustion System <sup>c,d,e</sup>                              |
| SO <sub>2</sub>  | 1. n/d<br>2. Natural gas <sup>b</sup>   | 1. n/d<br>2. Fuel Selection <sup>b</sup>   |
| CO               | 1. n/d<br>2. 265 ppmv @ 15% O <sub>2</sub> Dry [795 ppmv @ 3% O <sub>2</sub> Dry] <sup>b,e</sup>  | 1. n/d<br>2. Good Combustion Practice <sup>b,e</sup>   |
| PM <sub>10</sub> | 1. n/d<br>2. $\leq 0.01$ gr/dscf <sup>b,T</sup>   | 1. n/d<br>2. Baghouse <sup>b,T</sup>   |
| NPOC             | 1. n/a<br>2. n/a  | 1. n/a<br>2. n/a   |

**References**

- a. BAAQMD  
b. BAAQMD A #17860  
c. BAAQMD Interoffice Memorandum dated June 28, 2000 from B. Young to Bill deBoisblanc titled "Revised BACT Guideline for Asphalt Batch Plants".  
d. March 15, 2000 from D. P. Van Buren, PE to Barry Young titled "New BACT for Asphalt Batch Plants".  
e. BACT is 12 ppmvd NOx @ 15% O<sub>2</sub> and 265 ppmvd CO @ 15% O<sub>2</sub> regardless of fuel. However, for special situations such as temporary operations and/or remote locations where natural gas is not available, liquefied petroleum gas or fuel oil  $\leq 0.05$  wt. % sulfur may be permitted to emit at higher levels as specified below:  
1). "Temporary operations" using exclusively liquefied petroleum gas shall not remain at any single plant for a period in excess of 12 consecutive months, following the date of initial operation, and may be permitted up to 38 ppmvd NOx @ 15% O<sub>2</sub> and 265 ppmvd CO @ 15% O<sub>2</sub>. [Basis: Monterey Bay United APCD A/C #10287]  
2). "Temporary operations" using exclusively fuel oil  $\leq 0.05$  wt. % sulfur shall not remain at any single plant for a period in excess of 3 consecutive months, following the

*date of initial operation, and may be permitted up to 55 ppmvd NOx @ 15% O<sub>2</sub> and 265 ppmvd CO @ 15% O<sub>2</sub>. [Basis: Reference a. above]*

*3). For remote locations where natural gas is not available, liquefied petroleum gas may be permitted up to 38 ppmvd NOx @ 15% O<sub>2</sub> and 265 ppmvd CO @ 15% O<sub>2</sub> and fuel oil ≤ 0.05 wt. % sulfur may be permitted up to 55 ppmvd NOx @ 15% O<sub>2</sub> and 265 ppmvd CO @ 15% O<sub>2</sub>. [Basis: Monterey Bay APCD A/C #10287 and Reference a. above]*

*T. TBACT*