

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

**Source Category**

|         |                                      |             |          |
|---------|--------------------------------------|-------------|----------|
| Source: | Hot Mix Asphalt, Drum Mix Facilities | Revision:   | 1        |
|         |                                      | Document #: | 10A.1    |
| Class:  | All                                  | Date:       | 03/06/01 |

**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 $\geq 1400^{\circ}F^{a,T}$<br>2. n/s | 1. BAAQMD Approved Design and Operation <sup>a</sup><br>2. Good Combustion Practice <sup>a</sup> |
| NO <sub>x</sub>  | 1. n/d<br>2. 12 ppmv @ 15% O <sub>2</sub> Dry <sup>a,b,c</sup>                           | 1. n/d<br>2. Natural Gas + Low NO <sub>x</sub> Combustion System <sup>a,b,c</sup>                |
| SO <sub>2</sub>  | 1. n/d<br>2. Natural gas <sup>a,b,c</sup>  | 1. n/d<br>2. Fuel Selection <sup>a,b,c</sup>   |
| CO               | 1. n/d<br>2. 133 ppmv @ 15% O <sub>2</sub> Dry <sup>a,b,c</sup>                          | 1. n/d<br>2. Good Combustion Practice <sup>a,c</sup>   |
| PM <sub>10</sub> | 1. n/d<br>2. $\leq 0.01$ gr/dscf <sup>a,T</sup>  | 1. n/d<br>2. Baghouse <sup>a,T</sup>   |
| NPOC             | 1. n/a<br>2. n/a   | 1. n/a<br>2. n/a   |

**References**

a. BAAQMD  
b. BACT is 12 ppmvd NO<sub>x</sub> @ 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 NO<sub>x</sub> @ 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 NO<sub>x</sub> @ 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 NO<sub>x</sub> @ 15% O<sub>2</sub> and 265 ppmvd CO @ 15% O<sub>2</sub> and fuel oil  $\leq 0.05$  wt. % sulfur may be permitted up to 55 ppmvd NO<sub>x</sub> @ 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]  
c. BAAQMD A #17860  
T. TBACT