**Source Category**

Source: **Heater - Refinery Process, Natural or Induced Draft**  
Revision: 3  
Document #: 94.1.1  
Class: **5 MMBtu/hr to <50 MMBtu/hr Heat Input**  
Date: **08/12/94**

**Determination**

<table>
<thead>
<tr>
<th>POLLUTANT</th>
<th>BACT</th>
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</table>
|           | 1. Technologically Feasible/ Cost Effective  
|           | 2. Achieved in Practice |

<table>
<thead>
<tr>
<th>POLLUTANT</th>
<th>TYPICAL TECHNOLOGY</th>
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|           | 1. n/d  
|           | 2. n/s  
| POC       | 1. n/d  
|           | 2. Good Combustion Practice<sup>a</sup>  
| NOx       | 1. 10 ppmv @ 3% O<sub>2</sub>Dry<sup>a,b,c,e</sup>  
|           | 2. 25 ppmv @ 3% O<sub>2</sub>Dry<sup>a,b</sup>  
| SO<sub>2</sub> | 1. Natural Gas or Treated  
|           | Refinery Gas Fuel w/ ≤50 ppmv  
|           | Hydrogen Sulfide and ≤100 ppmv  
|           | Total Reduced Sulfur<sup>a</sup>  
|           | 2. Natural Gas or Treated  
|           | Refinery Gas Fuel w/ ≤100 ppmv  
|           | Total Reduced Sulfur<sup>a</sup>  
| CO        | 1. n/d  
|           | 2. 50 ppmv @ 3% O<sub>2</sub>Dry<sup>a,f</sup>  
| PM<sub>10</sub> | 1. n/d  
|           | 2. Natural Gas or Treated  
|           | Refinery Gas Fuel<sup>a,b</sup>  
| NPOC      | 1. n/a  
|           | 2. n/a  

**References**

- **a. BAAQMD**  
- **b. BAAQMD A #30783**  
- **c. BAAQMD A #3318**  
- **d. BAAQMD A #8407**  
- **e. NO<sub>x</sub> determination by BAAQMD Source Test Method ST-13A or B (average of three 30-minute sampling runs); or Continuous Emission Monitor (3-hour average); or BAAQMD approved equivalent.**
f. CO determination by BAAQMD Source Test Method ST-6 (average of three 30 minute sampling runs); or Continuous Emission Monitor (3-hour average); or BAAQMD approved equivalent.