

<b>BAY AREA AIR QUALITY MANAGEMENT DISTRICT Best Available Control Technology (BACT) Guideline</b>
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**Source Category**

<b>Source:</b>	Boiler	<b>Revision:</b>	<b>4</b>
		<b>Document #:</b>	<b>17.1.1</b>
<b>Class:</b>	5 MMBtu/hr to < 33.5 MMBtu/hr Heat Input	<b>Date:</b>	<b>08/04/10</b>

**Determination**

Pollutant	BACT 1. Technologically Feasible/ Cost Effective 2. Achieved in Practice	TYPICAL TECHNOLOGY
<b>POC</b>	<ol style="list-style-type: none"> <li>1. n/d</li> <li>2. n/s</li> </ol>	<ol style="list-style-type: none"> <li>1. n/d</li> <li>2. Good Combustion Practice<sup>a</sup></li> </ol>
<b>NO<sub>x</sub></b>	<ol style="list-style-type: none"> <li>1. n/d</li> <li>2. n/d</li> </ol>	<ol style="list-style-type: none"> <li>1. Low NO<sub>x</sub> Burners + Flue Gas Recirculation + Selective Catalytic Reduction<sup>a</sup></li> <li>2. Low NO<sub>x</sub> Burners + Flue Gas Recirculation<sup>a</sup></li> </ol>
<b>SO<sub>2</sub></b>	<ol style="list-style-type: none"> <li>1. Natural Gas or Treated Refinery Gas Fuel w/ ≤.50 ppmv Hydrogen Sulfide and ≤100 ppmv Total Reduced Sulfur<sup>a</sup></li> <li>2. Natural Gas or Treated Refinery Gas Fuel w/ ≤100 ppmv Total Reduced Sulfur<sup>a</sup></li> </ol>	<ol style="list-style-type: none"> <li>1. Fuel Selection<sup>Error! Reference source not found.</sup></li> <li>2. Fuel Selection<sup>Error! Reference source not found.</sup></li> </ol>
<b>CO</b>	<ol style="list-style-type: none"> <li>1. 50 ppmv @ 3% O<sub>2</sub> Dry<sup>a,e</sup></li> <li>2. 50 ppmv @ 3% O<sub>2</sub> Dry, for Firetube Boilers<sup>f</sup> 100 ppmv @ 3% O<sub>2</sub> Dry, for Watertube Boilers<sup>a,e</sup></li> </ol>	<ol style="list-style-type: none"> <li>1. Good Combustion Practice<sup>a</sup></li> <li>2. Good Combustion Practice<sup>a</sup></li> </ol>
<b>PM<sub>10</sub></b>	<ol style="list-style-type: none"> <li>1. n/d</li> <li>2. Natural Gas or Treated Refinery Gas Fuel<sup>a</sup></li> </ol>	<ol style="list-style-type: none"> <li>1. n/d</li> <li>2. Fuel Selection<sup>a</sup></li> </ol>
<b>NPOC</b>	<ol style="list-style-type: none"> <li>1. n/a</li> <li>2. n/a</li> </ol>	<ol style="list-style-type: none"> <li>1. n/a</li> <li>2. n/a</li> </ol>

## References

- a. BAAQMD
- d. NO<sub>x</sub> determination by BAAQMD source Test method ST-13A or B (average of three 30-minute sampling runs), or BAAQMD approved equivalent.
- e. CO determination by BAAQMD Source Test Method ST-6 (average of three 30 minute sampling runs), or BAAQMD approved equivalent.
- f. CO 100 ppmv allowance for firetube boilers meeting the 20 ppmv NO<sub>x</sub> standard.