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

## 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**

POLLUTANT	BACT 1. Technologically Feasible/ Cost Effective 2. Achieved in Practice	TYPICAL TECHNOLOGY
POC	1. <i>n/d</i> 2. <i>n/s</i>	1. n/d 2. Good Combustion Practice <sup>a</sup>
NOx	<ol> <li>10 ppmv @ 3% O<sub>2</sub> Dry<sup>a,b,c,e</sup></li> <li>25 ppmv @ 3% O<sub>2</sub> Dry<sup>a,b,e</sup></li> </ol>	<ol> <li>Selective Catalytic Reduction         (SCR) + Low NO<sub>x</sub> Burners<sup>a,b,c</sup>         Low NO<sub>x</sub> Burners; or Low NO<sub>x</sub>         Burners + Selective Non-Catalytic         Reduction (SNCR)<sup>a,d</sup> </li> </ol>
SO <sub>2</sub>	<ol> <li>Natural Gas or Treated Refinery Gas Fuel w/ ≤50 ppmv Hydrogen Sulfide and ≤100 ppmv Total Reduced Sulfur<sup>a</sup></li> <li>Natural Gas or Treated` Refinery Gas Fuel w/ ≤100 ppmv Total Reduced Sulfur<sup>a</sup></li> </ol>	<ol> <li>Fuel Selection<sup>a</sup></li> <li>Fuel Selection<sup>a</sup></li> </ol>
CO	1. n/d 2. 50 ppmv @ 3% O <sub>2</sub> Dry <sup>a,f</sup>	<ol> <li>n/d</li> <li>Good Combustion Practice<sup>a</sup></li> </ol>
$PM_{10}$	1. n/d 2. Natural Gas or Treated Refinery Gas Fuel <sup>a,b</sup>	1. n/d 2. Fuel Selection <sup>a,b</sup>
NPOC	1. n/a 2. n/a	1. n/a 2. n/a

## References

a. BAAQMD

*b. BAAQMD A #30783* 

c. BAAQMD A #3318

d. BAAQMD A #8407

e.  $NO_x$  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.