

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

Source Category

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

Determination

Pollutant	BACT 1. Technologically Feasible/ Cost Effective 2. Achieved in Practice	TYPICAL TECHNOLOGY
POC	<ol style="list-style-type: none"> 1. n/d 2. n/s 	<ol style="list-style-type: none"> 1. n/d 2. Good Combustion Practice^a
NO_x	<ol style="list-style-type: none"> 1. n/d 2. n/d 	<ol style="list-style-type: none"> 1. Low NO_x Burners + Flue Gas Recirculation + Selective Catalytic Reduction^a 2. Low NO_x Burners + Flue Gas Recirculation^a
SO₂	<ol style="list-style-type: none"> 1. Natural Gas or Treated Refinery Gas Fuel w/ ≤.50 ppmv Hydrogen Sulfide and ≤100 ppmv Total Reduced Sulfur^a 2. Natural Gas or Treated Refinery Gas Fuel w/ ≤100 ppmv Total Reduced Sulfur^a 	<ol style="list-style-type: none"> 1. Fuel Selection^{Error! Reference source not found.} 2. Fuel Selection^{Error! Reference source not found.}
CO	<ol style="list-style-type: none"> 1. 50 ppmv @ 3% O₂ Dry^{a,e} 2. 50 ppmv @ 3% O₂ Dry, for Firetube Boilers^f 100 ppmv @ 3% O₂ Dry, for Watertube Boilers^{a,e} 	<ol style="list-style-type: none"> 1. Good Combustion Practice^a 2. Good Combustion Practice^a
PM₁₀	<ol style="list-style-type: none"> 1. n/d 2. Natural Gas or Treated Refinery Gas Fuel^a 	<ol style="list-style-type: none"> 1. n/d 2. Fuel Selection^a
NPOC	<ol style="list-style-type: none"> 1. n/a 2. n/a 	<ol style="list-style-type: none"> 1. n/a 2. n/a

References

- a. BAAQMD
- d. NO_x 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_x standard.