

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

Source Category

Source: <i>Boiler, Rental</i>	Revision: <i>1</i>
	Document #: <i>16.1</i>
Class: <i>On-site < 6 consecutive months from the date of initial operation</i>	Date: <i>1/26/99</i>

Determination

POLLUTANT	BACT 1. Technologically Feasible/ Cost Effective 2. Achieved in Practice	TYPICAL TECHNOLOGY
POC	1. n/d 2. n/s	1. n/d 2. Good Combustion Practice ^a
NO_x	1. n/d 2. 25 ppmv @ 3% O ₂ Dry, ^{a,b,c}	1. n/d 2. Low NO _x Burners + Flue Gas Recirculation ^a
SO₂	1. Natural Gas, or Treated Refinery Gas Fuel w/ ≤ 50 ppmv Hydrogen Sulfide and ≤100 ppmv Total Reduced Sulfur ^{a,b} 2. Natural Gas, or Treated Refinery Gas Fuel w/ ≤100 ppmv Total Reduced Sulfur ^{a,b}	1. Fuel Selection ^{a,b} 2. Fuel Selection ^{a,b}
CO	1. n/d 2. 100 ppmv @ 3% O ₂ Dry ^{a,b,d}	1. n/d 2. Good Combustion Practice ^{a,b,d}
PM₁₀	1. n/d 2. Natural Gas or Treated Refinery Gas Fuel ^{a,b}	1. n/d 2. Fuel Selection ^{a,b}
NPOC	1. n/a 2. n/a	1. n/a 2. n/a

References

- a. BAAQMD staff report
- b. BACT is 25 ppmvd NO_x @ 3% O₂ and 100 ppmvd CO @ 3 % O₂ regardless of fuel. However, emergency backup fuel oil w/ ≤ 0.05 wt. % sulfur may be permitted to emit up to 60 NO_x ppmvd @ 3% O₂ and 100 ppmvd CO @ 3 % O₂ during natural gas curtailment.
- c. NO_x determination by BAAQMD Source Test method ST-13A (average of three 30-minute sampling runs), or BAAQMD approved equivalent.
- d. CO determination by BAAQMD Source Test Method ST-6 (average of three 30 minute sampling runs), or BAAQMD approved equivalent.