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

Source Category

Source:	***Heater - Refinery Process, Forced Draft***	Revision:	***3***
		Document #:	***94.2.1***
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. *n/d* 2. *n/s*	1. *n/d* 2. *Good Combustion Practice*[a]
NOx	1. *10 ppmv @ 3% O_2 Dry*[a,b,c,e] 2. *20 ppmv @ 3% O_2 Dry*[a,b,e]	1. *Selective Catalytic Reduction (SCR) + Low NO_x Burners*[a,b,c] 2. *Low NO_x Burners; + Flue Gas Recirculation; or Low NO_x Burners + Selective Non-Catalytic Reduction (SNCR); or Selective Catalytic Reduction(SCR)*[a,d]
SO_2	1. *Natural Gas or Treated Refinery Gas Fuel w/ $\leq$50 ppmv Hydrogen Sulfide and $\leq$100 ppmv Total Reduced Sulfur*[a] 2. *Natural Gas or Treated` Refinery Gas Fuel w/ $\leq$100 ppmv Total Reduced Sulfur*[a]	1. *Fuel Selection*[a] 2. *Fuel Selection*[a]
CO	1. *n/d* 2. *50 ppmv @ 3% O_2 Dry*[a,f]	1. *n/d* 2. *Good Combustion Practice*[a]
PM_{10}	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
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.