

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

Source Category

Source:	Boiler, CO - Refinery	Revision:	2
		Document #:	17.4.1
Class:	All	Date:	04/21/93

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. Minimum Furnace Gas bypassing + Good Combustion Practice ^{c,d}
NO _x	1. n/s 2. 80 ppm @ 3% O ₂ , Dry ^a	1. Selective Catalytic Reduction (SCR) + Flue Gas Recirculation + Technologies listed below ^c 2. Low NO _x Burners + Reduced Air Preheat + Natural Gas or Treated Refinery Gas as Supplemental Fuel ^{c,d}
SO ₂	1. Natural gas or Treated Refinery Gas Fuel w/ ≤50 ppm as hydrogen Sulfide as Supplemental Fuel ^{c,d} 2. Natural gas or Treated Refinery Gas Fuel w/ ≤100 PPM as hydrogen Sulfide as Supplemental Fuel ^{c,d}	1. Fuel Selection ^{a,d} 2. Fuel Selection ^{a,d}
CO	1. n/d 2. 100 ppm @ 3% O ₂ , Dry ^c	1. n/d 2. Minimum Furnace Gas Bypassing + Good Combustion Practice ^{a,d}
PM ₁₀	1. n/d 2. n/s	1. n/d 2. Electrostatic Precipitator ^a
NPOC	1. n/a 2. n/a	1. n/a 2. n/a

References

a. SOHIO Refinery; Toledo, Ohio

c. BAAQMD

d. See also Catalyst Regeneration - Fluidized Catalytic Cracking Unit