

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

Source Category

Source:	Flare - Refinery	Revision:	2
		Document #:	82.1
Class:	All	Date:	06/30/95

Determination

POLLUTANT	BACT 1. Technologically Feasible/ Cost Effective 2. Achieved in Practice	TYPICAL TECHNOLOGY
POC	1. Ground level flare, enclosed, steam- or air-assisted, w/ staged combustion; POC destruction efficiency $\geq 98.5\%$ (≥ 0.6 sec. retention time at $\geq 1400^{\circ}\text{F}$); use of natural gas or LPG as pilot fuel. Flare to be operated only during periods of emergency plant upset or breakdown; routine venting of process gases to be routed to fuel gas recovery system ^{b,T} 2. Elevated flare, steam- or air-assisted, w/staged combustion; POC destruction efficiency $\geq 98\%$; use of natural gas or LPG as pilot fuel. Flare to be operated only during periods of emergency plant upset or breakdown; routine venting of process gases to be routed to fuel gas recovery system ^{a,b,T}	1. BAAQMD Approved Design and Operation ^{a,T} 2. BAAQMD Approved Design and Operation ^{a,T}
NOx	1. n/d 2. Staged combustion as for POC above ^{a,T}	1. n/d 2. BAAQMD Approved Design and Operation ^a
SO ₂	1. n/d 2. n/d	1. n/d 2. n/d
CO	1. n/d 2. Same as for POC above ^a	1. n/d 2. BAAQMD Approved Design and Operation ^a
PM ₁₀	1. n/d 2. Same as for POC above ^{a,T}	1. n/d 2. BAAQMD Approved Design and Operation ^{a,T}
NPOC	1. n/a	1. n/a

2. n/a

2. n/a

References

a. BAAQMD

b. CARB/CAPCOA Clearinghouse

T. TBACT