

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

Source Category

Source:	Gas Turbine	Revision:	1
		Document #:	89.1.3
Class:	Simple Cycle (> = 40 Megawatts)	Date:	07/18/03

Determination

POLLUTANT	BACT 1. Technologically Feasible/ Cost Effective 2. Achieved in Practice	TYPICAL TECHNOLOGY
POC	1. n/d 2. 2.0 ppmv, Dry @ 15%O ₂ ^{a-g}	1. n/d 2. Oxidation Catalyst ^{a-g}
NO _x	1. n/d 2. 2.5 ppmv, Dry @ 15%O ₂ ^{a-e}	1. n/d 2. High Temperature SCR + Water or Steam Injection ^{a-e}
SO ₂	1. Natural Gas Fuel ^{a-g} 2. Natural Gas Fuel ^{a-g}	1. Exclusive use of CPUC-regulated grade natural gas ^{a-g} 2. Exclusive use of CPUC-regulated grade natural gas ^{a-g}
CO	1. n/d 2. 6.0 ppmv, Dry @ 15% O ₂ ^{a-g}	1. n/d 2. Oxidation Catalyst ^{a-g}
PM ₁₀	1. Natural Gas Fuel ^{a-g} 2. Natural Gas Fuel ^{a-g}	1. Exclusive use of CPUC-regulated grade natural gas ^{a-g} 2. Exclusive use of CPUC-regulated grade natural gas ^{a-g}
NPOC	1. n/a 2. n/a	1. n/a 2. n/a

References

- a. Application #2540, Creed Energy Center
- b. Application #2541, Lambie Energy Center
- c. Application #2542, Goose Haven Energy Center
- d. Application #5371, Wolfskill Energy Center
- e. Application #5412, Riverview Energy Center
- f. Guidance for the Permitting of Electrical Generation Technologies, CalEPA Air Resources Board, Stationary Source Division, July 2002
- g. Guidance for Power Plant Siting and Best Available Control Technology, CalEPA Air Resources Board, Stationary Source Division, September 1999.