

Refinery Boilers

**Table I
Identification of Performance Standards
Source Category: Refinery Boilers**

Regulated Component	Pollutant	Rule/Measure/Date							
		SCAQMD 1109, Ems. Of No _x From Boilers & Process Heaters, Rev: 8/5/88	BAAQMD 9-10, NO _x and CO From Boilers, Steam Generators and Process Heaters in Petroleum Refineries. Rev: 1/5/94						
Performance Standard									
Refinery boilers, steam generators and process heaters	NO _x	x	0.03 lb/MMbtu refinery wide	x	0.033 lb/MMbtu refinery-wide, operating day avg				
CO Boilers	NO _x				150 ppm @ 3% oxygen or 50% control, operating day avg.				
Clean fuel facility	NO _x				.033 lb/MMBtu avg refinery-wide 50% of total heat impact capacity has to meet by 7/1/2000, 100% by 7/1/2002				
Refinery boilers, steam generators and process heaters	CO			x	400 ppm @ 3% oxygen, avg per day				

Table II
Identification of Performance Standards
Source Category: Refinery Boilers

Rule/Measure	Rule/Measure				
	SCAQMD 1109	BAAQMD 9-10			
Exemptions	units less than or equal to 40 MMBtu/hr, sulfur plant reaction boilers, units operated at less than 10% capacity	boilers, steam generators, and process heaters with rated heat input less than 10 MMBtu/hr if fired exclusively with natural gas, lpg, or any combination thereof; or less than 1 MMBtu/hr if fired with any other fuel; or used in processing hydrogen sulfide process flue gas in sulfur recovery plants and their tail-gas treating units, or sulfuric acid manufacturing plants; or fired on non-gaseous fuel when natural gas is unavailable for use; waste heat recovery boilers used in conjunction with gas turbines or reciprocating internal combustion			
Applicability	boilers, steam generators, and process heaters in petroleum refineries	boilers, steam generators, and process heaters in petroleum refineries			

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	SCAQMD 1109	BAAQMD 9-10			
Comments	Using combustion modifications can sometimes lead to increased CO emissions. The boiler can be adjusted to prevent a large increase in CO. BAAQMD Rule 9-10 limits CO emissions. This rule does not control CO.				