

**TABLE 4.5.12**  
**SOUTH BAY POWER PLANT**  
**CRITERIA AIR POLLUTANTS EMISSIONS ESTIMATES, 1999 AND 2005**

Pollutant	Estimated Emissions in Tons Per Year <sup>a</sup>					2005 Cumulative A-Max (South Bay operational) <sup>d</sup> (Variant 1)	2005 Cumulative A-Max (South Bay retired) <sup>d</sup> (Variant 2)
	Existing <sup>b</sup>	1999 Baseline	1999 Analytical Maximum	1999 A-Max (with mitigation) <sup>c</sup>	1999 A-Max (with mitigation) <sup>c</sup>		
Carbon Monoxide	853	617	1,566	958	1,064	0	
Reactive Organic Gases	88	64	166	99	111	0	
Nitrogen Oxides	1,382	682	2,882	996	250	0	
Sulfur Oxides	50	25	949	53	242	0	
Particulate Matter (PM-10)	81	58	212	91	114	0	

- <sup>a</sup> Baseline and analytical maximum emissions estimates were developed using fuel consumption estimates developed by Sierra Energy and Risk Assessment, Inc. for this report, source test data for NO<sub>x</sub> and U.S. EPA emissions factors for the other pollutants (U.S. Environmental Protection Agency, 1998).
- <sup>b</sup> Existing emissions reflect an annual average of emissions over the 1994 to 1996 period.
- <sup>c</sup> Proposed as project mitigation, SDG&E would request that SDAPCD modify its permits for the boilers at the Encina and South Bay plants to include aggregate NO<sub>x</sub> emissions limits consistent with the limits that would otherwise have applied to SDG&E had SDG&E not divested the plants.
- <sup>d</sup> The 2005 Cumulative emissions estimates reflect a mitigation measure (also proposed as project mitigation) that would modify the permits for the boilers at the Encina and South Bay power plants to require the exclusive use of natural gas (i.e., would prohibit use of fuel oil) except under conditions of force majeure natural gas curtailment. This restriction would become effective on January 1, 2001.

SOURCE: Environmental Science Associates