

**TABLE 4.5.16  
SUMMARY OF HEALTH RISKS FOR SDG&E POWER PLANTS**

Plant	Existing Conditions <sup>a</sup>			1999 Baseline (low priced oil) <sup>b</sup>			1999 A-Max (low priced oil) <sup>b</sup>			1999 (Mitigated) <sup>b</sup>		
	Cancer	Hazard	Hazard	Cancer	Hazard	Hazard	Cancer	Hazard	Hazard	Cancer	Hazard	Hazard
	Risks <sup>d</sup> (in a million)	Index <sup>c</sup> Chronic	Index <sup>c</sup> Acute <sup>e</sup>	Risks (in a million)	Index <sup>c</sup> Chronic	Index <sup>c</sup> Acute <sup>e</sup>	Risks <sup>d</sup> (in a million)	Index <sup>c</sup> chronic	Index <sup>c</sup> acute <sup>e</sup>	Risks <sup>d</sup> (in a million)	Index <sup>c</sup> chronic	Index <sup>c</sup> Acute <sup>e</sup>
Encina	<u>0.09</u> <del>0.96</del>	0.003	0.10	<u>0.09</u> <del>0.96</del>	0.003	0.10	<u>0.09</u> <del>0.96</del>	0.003	0.10	<u>0.09</u> <del>0.96</del>	0.003	0.10
Incremental Increase <sup>f</sup>	NA	NA	NA	NC	NC	NC	<u>0.0009</u> <del>4</del>	3.95E-5	NA	<u>0.0001</u> <del>3</del>	9.54E-6	NA
South Bay	0.72	0.002	0.20	0.65	0.001	0.20	1.40	0.021	0.20	0.74	0.002	0.20
Incremental Increase <sup>f</sup>	NA	NA	NA	NC	NC	NC	0.76	0.020	NA	0.10	0.001	NA

  

Plant	2005 Cumulative A-Max					
	Variant 1 (South Bay operational) <sup>b</sup>			Variant 2 (South Bay Retired) <sup>b</sup>		
	Cancer	Hazard	Hazard	Cancer	Hazard	Hazard
Risks <sup>d</sup> (in a million)	Index <sup>c</sup> Chronic	Index <sup>c</sup> Acute <sup>e</sup>	Risks (in a million)	Index <sup>c</sup> Chronic	Index <sup>c</sup> Acute <sup>e</sup>	
Encina	<u>0.09</u> <del>0.96</del>	0.003	0.10	<u>0.09</u> <del>0.96</del>	0.003	0.10
Incremental Increase <sup>f</sup>	0.0004	1.8E-5	NA	0.0001	2.2E-5	NA
South Bay	0.88	0.006	0.20	NA	NA	NA
Incremental Increase <sup>f</sup>	0.23	0.005	NA	NA	NA	NA

<sup>a</sup> Cancer risks and Hazard Indices are based on the results reported in San Diego Gas and Electric Company Air Toxics Hot Spots Risk Assessments (1993), adjusted to current emissions (1996).

<sup>b</sup> Risks are adjusted to projected 1999 and 2005 emissions.

<sup>c</sup> Hazard index is the ratio of the maximum exposure level and the reference dose of each toxic substance. The reference dose is the level with no observed health effect. A hazard index less than 1.0 indicates no health effect.

<sup>d</sup> The significance threshold for incremental cancer risk is 10 in a million.

<sup>e</sup> The acute hazard risk index is not expected to change since it is based on a one-hour maximum.

<sup>f</sup> The incremental increase is the difference between the 1999 Baseline and the scenario.

SOURCE: Environmental Science Associates