

TABLE 4.5.13
COMBUSTION TURBINE SITES
CRITERIA AIR POLLUTANTS EMISSIONS ESTIMATES, 1999 AND 2005

Pollutant	Estimated Emissions in Tons Per Year ^a				
	Existing ^b	1999 Baseline	1999 Analytical Maximum	2005 Cumulative A-Max (South Bay operational)	2005 Cumulative A-Max (South Bay retired)
<u>Division Street CT:</u>					
Carbon Monoxide	0.1	< 0.05	< 0.05	< 0.05	< 0.05
Reactive Organic Gases	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrogen Oxides	0.4	< 0.05	< 0.05	0.1	< 0.05
Sulfur Oxides	1.2	< 0.05	< 0.05	0.3	0.1
Particulate Matter (PM-10)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
<u>El Cajon CT:</u>					
Carbon Monoxide	< 0.05	< 0.05	< 0.05	0.3	0.2
Reactive Organic Gases	< 0.05	< 0.05	< 0.05	0.1	0.1
Nitrogen Oxides	0.2	0.3	0.6	6.0	4.3
Sulfur Oxides	0.1	< 0.05	< 0.05	0.1	0.1
Particulate Matter (PM-10)	< 0.05	< 0.05	< 0.05	0.3	0.2
<u>Kearny CTs:</u>					
Carbon Monoxide	0.4	0.1	0.3	2.7	1.9
Reactive Organic Gases	0.1	< 0.05	0.1	1.0	0.7
Nitrogen Oxides	5.6	2.5	5.3	56.2	38.6
Sulfur Oxides	1.6	< 0.05	0.1	0.8	0.6
Particulate Matter (PM-10)	0.3	0.1	0.3	2.6	1.9
<u>Miramar Yard CTs:</u>					
Carbon Monoxide	0.2	0.1	0.1	0.8	0.5
Reactive Organic Gases	0.1	< 0.05	< 0.05	0.3	0.2
Nitrogen Oxides	3.3	1.0	1.6	15.3	11.0
Sulfur Oxides	0.4	< 0.05	< 0.05	0.2	0.2
Particulate Matter (PM-10)	0.2	0.1	0.1	0.7	0.5

TABLE 4.5.13 (Continued)
COMBUSTION TURBINE SITES
CRITERIA AIR POLLUTANTS EMISSIONS ESTIMATES, 1999 AND 2005

Pollutant	Estimated Emissions in Tons Per Year ^a				
	Existing ^b	1999 Baseline	1999 Analytical Maximum	2005 Cumulative A-Max (South Bay operational)	2005 Cumulative A-Max (South Bay retired)
<u>Naval Station CT:</u>					
Carbon Monoxide	0.2	< 0.05	< 0.05	0.5	0.3
Reactive Organic Gases	< 0.05	< 0.05	< 0.05	0.2	0.1
Nitrogen Oxides	2.2	0.7	0.9	9.4	6.6
Sulfur Oxides	0.7	< 0.05	< 0.05	0.1	0.1
Particulate Matter (PM-10)	0.1	< 0.05	< 0.05	0.5	0.3
<u>Naval Training Center CT:</u>					
Carbon Monoxide	< 0.05	< 0.05	< 0.05	0.3	0.2
Reactive Organic Gases	< 0.05	< 0.05	< 0.05	0.1	0.1
Nitrogen Oxides	0.4	0.3	0.6	5.9	4.4
Sulfur Oxides	0.1	< 0.05	< 0.05	0.1	0.1
Particulate Matter (PM-10)	< 0.05	< 0.05	< 0.05	0.3	0.2
<u>North Island CTs:</u>					
Carbon Monoxide	0.3	< 0.05	0.1	0.3	0.2
Reactive Organic Gases	< 0.05	< 0.05	< 0.05	0.1	0.1
Nitrogen Oxides	1.5	0.3	0.5	4.0	2.9
Sulfur Oxides	2.1	0.2	0.3	0.4	0.1
Particulate Matter (PM-10)	0.1	< 0.05	< 0.05	0.2	0.2
<u>Total:</u>					
Carbon Monoxide	1.3	0.3	0.5	4.8	3.4
Reactive Organic Gases	0.3	0.1	0.2	1.7	1.2
Nitrogen Oxides	13.7	5.1	9.6	94.8	67.9
Sulfur Oxides	6.2	0.3	0.4	2.0	1.2
Particulate Matter (PM-10)	0.7	0.3	0.5	4.6	3.3

^a 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 NOx and U.S. EPA emissions factors for the other pollutants (U.S. Environmental Protection Agency, 1998).

^b Existing emissions reflect an annual average of emissions over the 1994 to 1996 period.

Source: Environmental Science Associates