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**Emergency Generator and Boiler Emissions Calculations**

### Amargosa Creek Specific Plan Hospital Stationary Emissions

Source	ROG	NOx	lbs/day		
			CO	SOx	PM10
Emergency Generators	0.67	5.77	5.77	0.01	0.16
Boilers	2.77	25.20	42.34	0.30	3.83
Total Stationary Source Emissions	3.44	30.97	48.10	0.31	3.99

**Amargosa Creek Specific Plan  
Hospital Emergency Generators**

Emergency Generator #1

Rating: 750 KW  
1006 HP  
Operating Hours 0.5 hr/day  
6.0 hr/yr

	ROG	NOx	CO	SOx	PM10
gm/HP-hr	0.3	2.6	2.6	0.005	0.07
lb/hr	0.67	5.77	5.77	0.01	0.16
lb/day	0.33	2.88	2.88	0.01	0.08
lb/yr	3.99	34.60	34.60	0.07	0.93

Emergency Generator #2

Rating: 750 KW  
1006 HP  
Operating Hours 0.5 hr/day  
6 hr/yr

	ROG	NOx	CO	SOx	PM10
gm/HP-hr	0.3	2.6	2.6	0.005	0.07
lb/hr	0.67	5.77	5.77	0.01	0.16
lb/day	0.33	2.88	2.88	0.01	0.08
lb/yr	3.99	34.60	34.60	0.07	0.93

	ROG	NOx	CO	SOx	PM10
Facility Totals					
lb/day	0.67	5.77	5.77	0.01	0.16
ton/yr	0.0040	0.0346	0.0346	0.0001	0.0009

Notes:

1. Emission factors (except SOx) based on EPA/ARB emission standards for 2011 MY generators > 750 HP and ≤ 1200 HP.
2. Emission Factor for SOx is based on 15 ppm (0.0015%) S and fuel usage of 0.4 lb/HP-hr. engines.

**Amargosa Creek Specific Plan  
Hospital Boilers**

Boiler #1

Rating: 10.5 MMBtu/hr

	ROG	NOx	CO	SOx	PM10
ppm @ 3% O <sub>2</sub>		40			
lb/MMBtu	0.0055	0.05	0.084	0.0006	0.0076
lb/day	1.39	12.60	21.17	0.15	1.92
lb/yr	505.89	4,599.00	7,726.32	55.19	699.05

Concentration limit for NOx: AVAQMD Rule 1146

Emission Factors for VOC, CO, PM10, and SOx: AP-42, Chapter 1.4

Boiler #2

Rating: 10.5 MMBtu/hr

	ROG	NOx	CO	SOx	PM10
ppm @ 3% O <sub>2</sub>		40			
lb/MMBtu	0.0055	0.05	0.084	0.0006	0.0076
lb/day	1.39	12.60	21.17	0.15	1.92
lb/yr	505.89	4,599.00	7,726.32	55.19	699.05

Concentration limit for NOx: AVAQMD Rule 1146

Emission Factors for VOC, CO, PM10, and SOx: AP-42, Chapter 1.4

	ROG	NOx	CO	SOx	PM10
Facility Totals					
lb/day	2.77	25.20	42.34	0.30	3.83
ton/yr	0.51	4.60	7.73	0.06	0.70