

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 9804

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source		Air Contaminant		<u>Emission Rates *</u>	
	Name (2)	Name (3)	lb/hr	TPY		
DCS-RT-1	Road Traffic Fugs. (4)			TSP	110.27	5.62
				PM ₁₀	49.61	2.54
DCS-SP-1 to DCS-SP-5	Stockpile (4)			TSP	0.15	0.66
				PM ₁₀	0.15	0.66
				Cr ⁺³	0.05	0.20
				Cr _{tot}	0.05	0.20
DCS-CT-1 to DCS-CT-7	Cooling Tower			TSP	<.01	<.01
				PM ₁₀	<.01	<.01
				Cr ⁺⁶	0.0003	0.001
				Cr _{tot}	0.0003	0.001
DCS-MH-1	Material Handling (4)			TSP	0.022	0.0024
				PM ₁₀	<.01	<.01
				Cr ⁺³	0.0007	0.0007
				Cr _{tot}	0.0007	0.0007
14	Hearth Stack			TSP	6.48	28.38
				PM ₁₀	5.83	25.54
				VOC	0.86	3.77
				NO _x	10.71	46.91
				SO ₂	0.06	0.26
				CO	2.14	9.37
				Cr ⁺³	0.50	2.19
				Cr ⁺⁶	0.10	0.44
				Cr _{tot}	0.60	2.63
15	Mixer Scrubber Stack			TSP	10.32	45.20
				PM ₁₀	9.29	40.68
				Cr ⁺³	0.50	2.19

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		
			lb/hr	TPY	
			Cr ⁺⁶	0.03	0.132
			Cr _{tot}	0.53	2.322
16	Calclner Stack	TSP	3.26	14.28	
		PM ₁₀	2.93	12.81	
		VOC	0.08	0.35	
		NO _x	0.98	4.29	
		SO ₂	<0.01	0.03	
		CO	0.20	0.88	
		Cr ⁺³	0.28	1.23	
		Cr ⁺⁶	0.03	0.132	
		Cr _{tot}	0.31	1.358	
17	Electrolytic Stack	TSP	0.40	1.752	
		PM ₁₀	0.40	1.752	
		Cr ⁺³	0.004	0.016	
		Cr ⁺⁶	0.015	0.066	
		Cr _{tot}	0.019	0.082	
		NaOH	0.50	2.20	
33	Lime Bin Baghouse	TSP	0.03	0.14	
		PM ₁₀	0.03	0.13	
34	Soda Ash Bin Baghouse	TSP	0.03	0.14	
		PM ₁₀	0.03	0.13	
38	Soda Ash Supply Bin	TSP	0.08	0.35	
		PM ₁₀	0.07	0.32	
41	Kiln Stack	TSP	1.13	4.95	
		PM ₁₀	1.02	4.47	
		VOC	0.28	1.23	
		NO _x	3.49	15.29	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		SO ₂	0.02	0.09
		CO	0.70	3.07
		Cr ⁺³	0.07	0.307
		Cr ⁺⁶	0.03	0.132
		Cr _{tot}	0.10	0.439
42	Leach Scrubber Stack	TSP	2.24	9.81
		PM ₁₀	2.02	8.83
		Cr ⁺³	0.61	2.672
		Cr ⁺⁶	0.15	0.66
		Cr _{tot}	0.76	4.092
D1 to Dx	Storage Tanks (4)	Cr ⁺⁶	0.007	0.005
		Cr _{tot}	0.007	0.005

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) TSP - total suspended particulate including PM₁₀
 PM₁₀ - particulate matter less than 10 microns
 VOC - volatile organic compound as defined in General Rule 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 CO - carbon monoxide
 Cr⁺³ - trivalent chromium
 Cr⁺⁶ - hexavalent chromium
 Cr_{tot} - total chromium (Cr⁺³ + Cr⁺⁶)

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day____Days/week____Weeks/year____or Hrs/year 8,760

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			lb/hr	TPY

Emission limits are based on a total maximum throughput on Table 2 of the confidential attachment Section IV dated January 20, 1994.

Dated _____