

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 Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
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	5.07	22.19
		PM ₁₀	5.07	22.19
		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	9.05	39.65
		PM ₁₀	9.05	39.65
		Cr ⁺³	0.50	2.19
		Cr ⁺⁶	0.03	0.132
		Cr _{tot}	0.53	2.322
16	Raw Materials Baghouse Stack	TSP	1.06	4.65
		PM ₁₀	1.06	4.65
		VOC	0.08	0.35

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		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	1.15	5.01
		PM ₁₀	1.15	5.01
		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 Stack	TSP	0.03	0.14
		PM ₁₀	0.03	0.13
34	Soda Ash Bin No. 1 Baghouse Stack	TSP	0.13	0.57
		PM ₁₀	0.13	0.57
35	Soda Ash Bin No. 2 Baghouse Stack	TSP	0.13	0.57
		PM ₁₀	0.13	0.57
36	Kiln Ash Feed Bin Baghouse Stack	TSP	0.13	0.57
		PM ₁₀	0.13	0.57
38	Soda Ash Supply Bin Baghouse Stack	TSP	0.08	0.35
		PM ₁₀	0.07	0.32
41	Kiln Stack	TSP	0.88	3.83
		PM ₁₀	0.88	3.83
		VOC	0.28	1.23
		NO _x	3.49	15.29
		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	1.80	7.86

PM ₁₀	1.80	7.86
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.

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- (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)
NaOH - sodium hydroxide

* 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

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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u> *	
			<u>lb/hr</u>	<u>TPY</u>

Dated_____