

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 7736

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		
OX-MH-1	Material Handling (4)			TSP	<.01	<.01
				PM <sub>10</sub>	<.01	<.01
				Cr <sup>+3</sup>	0.0003	0.001
				Cr <sub>tot</sub>	0.0003	0.001
3	Boiler No. 2			TSP	6.57	5.39
				PM <sub>10</sub>	4.93	4.04
				VOC	0.83	1.14
				NO <sub>x</sub>	82.50	361.35
				SO <sub>2</sub>	47.10	18.56
				CO	6.00	26.28
				SO <sub>3</sub>	0.95	0.34
4	Boiler No. 3			TSP	6.57	5.39
				PM <sub>10</sub>	4.93	4.04
				VOC	0.83	1.14
				NO <sub>x</sub>	82.50	361.35
				SO <sub>2</sub>	47.10	18.56
				CO	6.00	26.28
				SO <sub>3</sub>	0.95	0.34
201	Sulfate Unloading Baghouse			TSP	0.03	0.13
				PM <sub>10</sub>	0.02	0.12
202	Grinding Building Vent			TSP	0.30	1.31
				PM <sub>10</sub>	0.27	1.18
205	Ground Sulfate Vent			TSP	0.03	0.13
				PM <sub>10</sub>	0.02	0.12

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Emission Point No. (1)	Source Name (2)	Name (3)	lb/hr	Air Contaminant TPY	<u>Emission Rates *</u>	
210	Plant Stack			TSP	5.91	25.89
				PM <sub>10</sub>	5.32	23.30
				NO <sub>x</sub>	22.83	100.00
				SO <sub>2</sub>	20.48	89.70
				NH <sub>3</sub>	17.50	76.65
				Cr <sup>+3</sup>	0.90	3.94
				Cr <sup>+6</sup>	0.05	0.22
				Cr <sub>tot</sub>	0.95	4.16
				HBO <sub>2</sub>	0.04	0.18
211	Filter Vent			TSP	1.04	4.56
				PM <sub>10</sub>	0.94	4.10
				Cr <sup>+3</sup>	0.05	0.219
				Cr <sup>+6</sup>	0.0003	0.001
				Cr <sub>tot</sub>	0.0503	0.220
214	Packing/Dryer Stack			TSP	0.90	3.94
				PM <sub>10</sub>	0.81	3.55
				NO <sub>x</sub>	2.30	10.07
				SO <sub>2</sub>	0.15	0.66
				Cr <sup>+3</sup>	0.60	2.63
				Cr <sup>+6</sup>	0.0002	0.001
				Cr <sub>tot</sub>	0.60	2.631
OX1 to OXx	Chromic Oxide Storage Tanks (4)			Cr <sup>+3</sup>	0.003	0.001
				Cr <sub>tot</sub>	0.003	0.001

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H1 to Hx	Hydrate Plant Storage Tanks (4)	Cr <sup>+3</sup>	0.0002	0.0001
		Cr <sup>+6</sup>	0.0001	0.0001
		Cr <sub>tot</sub>	0.0003	0.0002
OX-34	SO <sub>2</sub> Storage Tank (4)	SO <sub>2</sub>	<.01	<.01

- (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
  - PM<sub>10</sub> - particulate matter less than 10 microns
  - VOC - volatile organic compounds as defined in General Rule 101.1
  - NO<sub>x</sub> - total oxides of nitrogen
  - SO<sub>2</sub> - sulfur dioxide
  - CO - carbon monoxide
  - SO<sub>3</sub> - sulfur trioxide
  - NH<sub>3</sub> - ammonia
  - Cr<sup>+3</sup> - trivalent chromium
  - Cr<sup>+6</sup> - hexavalent chromium
  - Cr<sub>tot</sub> - total chromium
  - HBO<sub>2</sub> - metaboric acid

\* 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 the plant throughput as shown on the Material Balance Table in the confidential attachment dated January 20, 1994. Emission limits for Boilers 2 and 3 are based on the use of natural gas for 8,040 hours per year and No. 6 fuel oil for 720 hours per year.

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Dated \_\_\_\_\_