

# 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 Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
OX-MH-1	Material Handling	PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		Cr <sup>+3</sup>	0.0003	0.001
		Cr <sub>tot</sub>	0.0003	0.001
4	Boiler No. 3 (7/01)	NO <sub>x</sub>	41.18	90.18
		CO	12.35	27.05
		VOC	0.81	1.77
		SO <sub>2</sub>	0.09	0.20
		SO <sub>3</sub>	<0.01	<0.01
		PM	1.12	2.45
		PM <sub>10</sub>	1.12	2.45
201	Sulfate Unloading Vent	PM	0.03	0.13
		PM <sub>10</sub>	0.02	0.12
202	Grinding Building Vent	PM	0.30	1.31
		PM <sub>10</sub>	0.27	1.18
205	Ground Sulfate Vent	PM	0.03	0.13
		PM <sub>10</sub>	0.02	0.12
210	Plant Stack	NO <sub>x</sub>	38.82	155.00
		NH <sub>3</sub>	3.50	15.33
		HBO <sub>2</sub>	0.04	0.18
		SO <sub>2</sub>	20.48	89.70
		PM	5.91	25.89
		PM <sub>10</sub>	5.32	23.30
		Cr <sup>+6</sup>	0.05	0.22
		Cr <sup>+3</sup>	0.90	3.94
		Cr <sub>tot</sub>	0.95	4.16

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
211	Filter Vent	PM	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	PM	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>	0.0005	0.002
		Cr <sub>tot</sub>	0.0005	0.002
H1 to Hx	Hydrate Plant Storage Tanks (4)	Cr <sup>+3</sup>	0.00001	0.0001
		Cr <sub>tot</sub>	0.00001	0.0001

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources use area name or fugitive source name.
- (3)
  - PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.
  - PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
  - VOC - volatile organic compounds as defined in 30 Texas Administrative Code Chapter 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>+6</sup> - hexavalent chromium
  - Cr<sup>+3</sup> - trivalent chromium
  - Cr<sub>tot</sub> - total chromium
  - HBO<sub>2</sub> - metaboric acid

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(4) Fugitive emissions are an estimate only.

- \* 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 file.

Dated August 27, 2001