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	Emission Rates TPY
OX-MH-1	Material Handling	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		Cr^{+3}	0.0003	0.001
		Cr_{tot}	0.0003	0.001
3	Boiler No. 2	PM	6.57	5.39
		PM_{10}	4.93	4.04
		VOC	0.83	1.14
		NO_X	82.50	361.35
		SO_2	47.10	18.56
		CO	6.00	26.28
		SO_3	0.95	0.34
4	Boiler No. 3	PM	6.57	5.39
		PM_{10}	4.93	4.04
		VOC	0.83	1.14
		NO_X	82.50	361.35
		SO_2	47.10	18.56
		CO	6.00	26.28
		SO_3	0.95	0.34
201	Sulfate Unloading Vent	PM	0.03	0.13
		PM_{10}	0.02	0.12
202	Grinding Building Vent	PM	0.30	1.31
		PM_{10}	0.27	1.18
205	Ground Sulfate Vent	PM	0.03	0.13

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		PM_{10}	0.02	0.12

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
210	Plant Stack	PM	5.91	25.89
		PM_{10}	5.32	23.30
		NO_X	22.83	100.00
		SO_2	20.48	89.70
		NH_3	17.50	76.65
		Cr^{+6}	0.05	0.22
		Cr^{+3}	0.90	3.94
		Cr_{tot}	0.95	4.16
		HBO_2	0.04	0.18
211	Filter Vent	PM	1.04	4.56
		PM_{10}	0.94	4.10
		Cr^{+3}	0.05	0.219
		Cr^{+6}	0.0003	0.001
		Cr_{tot}	0.0503	0.220
214	Packing/Dryer Stack	PM	0.90	3.94
		PM_{10}	0.81	3.55
		NO_X	2.30	10.07
		SO_2	0.15	0.66
		Cr^{+3}	0.60	2.63
		Cr^{+6}	0.0002	0.001
		Cr_{tot}	0.60	2.631
OX1 to OXx	Chromic Oxide Storage Tanks (4)	Cr^{+3}	0.0005	0.002
		Cr_{tot}	0.0005	0.002
H1 to Hx	Hydrate Plant Storage Tanks (4)	Cr^{+3}	0.00001	0.0001
		Cr_{tot}	0.00001	0.0001

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(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) PM -particulate matter, suspended in the atmosphere, including PM_{10}.

PM_{10} - 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 General Rule 101.1

NO_X - total oxides of nitrogen

SO_2 - sulfur dioxide

CO - carbon monoxide

SO_3 - sulfur trioxide

NH_3 - ammonia

Cr^{+6} - hexavalent chromium

Cr^{+3} - trivalent chromium

Cr_{tot} - total chromium

HBO_2 - metaboric acid

(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. Emission limits for Boiler Nos. 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.

Dated_____