

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 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 (4)	PM/PM ₁₀	<0.01	0.03
		Cr ⁺³	0.003	0.013
		Cr _{tot}	0.003	0.013
201	Sulfate Unloading Vent	PM/PM ₁₀	0.03	0.14
202	Grinding Building Vent	PM/PM ₁₀	0.30	1.33
205	Ground Sulfate Vent	PM/PM ₁₀	0.04	0.15
210	Plant Stack Blending/Reaction, Kiln Nos. 1 and 2, and Chromium Hydrate Line	NO _x	60.55	186.48
		NH ₃	3.50	15.33
		HBO ₂	0.04	0.18
		SO ₂	26.54	45.05
		CO	1.89	8.30
		VOC	0.12	0.54
		PM/PM ₁₀	5.20	14.74
		Cr ⁺⁶	0.02	0.041
		Cr ⁺³	0.90	3.940
		Cr _{tot}	0.92	3.981
211	Filter Vent	PM/PM ₁₀	0.13	0.54
		Cr ⁺³	0.006	0.026
		Cr ⁺⁶	<0.001	<0.001
		Cr _{tot}	0.006	0.026
214	Packing/Dryer Stack Product Bin Nos. 1, 2, and 3, T Bin, B Mill, and General Area Packing	PM/PM ₁₀	1.10	4.80
		NO _x	0.87	2.40
		SO ₂	0.15	0.66
		CO	0.49	2.16

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
		VOC	0.03	0.14
		Cr ⁺³	0.60	2.63
		Cr ⁺⁶	<0.001	0.001
		Cr _{tot}	<0.601	2.631
OX1 to OXx	Chromic Oxide Storage Tanks (4 and 5)	PM/PM ₁₀	<0.01	<0.01
		Cr ⁺³	0.001	0.002
		Cr _{tot}	0.001	0.002
H1 to Hx	Hydrate Plant Storage Tanks (4 and 5)	PM/PM ₁₀	<0.01	<0.01
		Cr ⁺³	<0.001	<0.001
		Cr _{tot}	<0.001	<0.001
OX21	Gasoline Tank	VOC	0.34	0.75
OX23	Diesel Tank	VOC	<0.01	<0.01

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- (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 PM₁₀.
 - PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter.
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - CO - carbon monoxide
 - NH₃ - ammonia
 - Cr⁺⁶ - hexavalent chromium
 - Cr⁺³ - trivalent chromium
 - Cr_{tot} - total chromium
 - HBO₂ - metaboric acid
- (4) Fugitive emissions are an estimate only.
- (5) Total emissions from all tanks

Dated December 27, 2010