

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 9212

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)	<u>Emission Rates</u>	
			lb/hr	TPY
A-MH-1	Material Handling (4)	PM	<.01	<.01
		PM <sub>10</sub>	<.01	<.01
		Cr <sup>+3</sup>	0.00002	0.00001
		Cr <sup>+6</sup>	<0.0001	<0.00005
		Cr <sub>tot</sub>	<0.00011	<0.0001
301	Hydrogen Scrubber Stack	PM	0.71	3.10
		PM <sub>10</sub>	0.64	2.80
		Cr <sup>+3</sup>	0.004	0.018
		Cr <sup>+6</sup>	0.016	0.070
		Cr <sub>tot</sub>	0.020	0.088
		NaOH		0.50
	2.20			
302	Oxygen Scrubber Stack	PM	1.10	4.82
		PM <sub>10</sub>	0.99	4.34
		Cr <sup>+3</sup>	0.003	0.011
		Cr <sup>+6</sup>	0.010	0.044
		Cr <sub>tot</sub>	0.013	0.055
		Cl <sub>2</sub>	0.50	2.20
303	Product Area Dryer Stack	PM	0.40	1.80
		PM <sub>10</sub>	0.36	1.62
		Cr <sup>+3</sup>	0.004	0.018
		Cr <sup>+6</sup>	0.016	0.07
		Cr <sub>tot</sub>	0.020	0.088

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
A1 to Ax	Storage Tanks (4)	PM/PM <sub>10</sub>	<0.00001	<0.0001
		Cr <sup>+6</sup>	<.00001	<.0001
		Cr <sub>tot</sub>	<.00001	<.0001
A-CT-1, 2, and 3	Cooling Towers (4)	PM	<.001	<.001
		PM <sub>10</sub>	<.001	<.001
		Cr <sup>+6</sup>	<.001	<.001
		Cr <sub>tot</sub>	<.001	<.001

- (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 - total suspended particulate 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.  
 PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter.  
 Cr<sup>+3</sup> - trivalent chromium  
 Cr<sup>+6</sup> - hexavalent chromium  
 Cr<sub>tot</sub> - total chromium  
 NaOH - sodium hydroxide  
 Cl<sub>2</sub> - chlorine
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

Dated: August 8, 2011