

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 21130

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**
SA-01	PSA Stack	SO ₂	161.0	222.3
		H ₂ SO ₄	9.95	28.5
		NO _x	3.6	17.5
	Plant Startup	SO ₂	258.27	
		H ₂ SO ₄	6.00	
		NO _x	44.12	
		CO	4.12	
		PM	0.37	
	Plant Shutdown & Clearing	SO ₂	123.75	
		H ₂ SO ₄	7.00	
		NO _x	3.66	
	Annual MSS	SO ₂		6.37
		H ₂ SO ₄		0.25
		NO _x		0.42
		CO		0.10
		PM		0.01
SA-02	Barge Unloading	SO ₂	0.01	0.01
		H ₂ SO ₄	0.01	0.01
SA-03	Sulfur Storage Tank	H ₂ S	0.34	0.17
		Sulfur	0.80	0.40
		SO ₂	0.02	0.01
SA-04	Sulfur Unloading Pit	H ₂ S	0.52	0.17
		Sulfur	0.43	0.07
		SO ₂	0.03	0.01
SA-05	Sulfur Transfer Pit	H ₂ S	0.038	0.17
		Sulfur	0.03	0.07
		SO ₂	0.01	0.01

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SA-06	Non-Fuming and Fuming Acid Loading	SO ₂	0.01	0.01
		H ₂ SO ₄	0.01	0.01
SA-07	Drip Acid Tank	H ₂ SO ₄	0.01	0.01
SA-08	Blend Tank	SO ₂	0.01	0.01
		H ₂ SO ₄	0.01	0.01
SA-16	Maintenance Fume Scrubber	H ₂ SO ₄	0.063	0.05
SA-MSS	Maintenance Line and Vessel Clearing to Atmosphere	SO ₂	2.04	0.39
		H ₂ SO ₄	0.449	0.059
SA-VACMSS	Vacuum Trucks	H ₂ SO ₄	<0.001	<0.001

(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) SO₂ - sulfur dioxide

H₂SO₄ - sulfuric acid

NO_x - total oxides of nitrogen

H₂S - hydrogen sulfide

PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}

* Except as specified above, emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/year 8,760

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated July 14, 2011