

Emission Sources - Maximum Allowable Emission Rates

Permit Number 21130

[593424] Draft!!

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
SA-01	PSA Stack	H ₂ SO ₄	9.23	28.28
		NO _x	3.37	14.76
		SO ₂	160.42	222.03
SA-01MSS	Startup	CO	4.12	(6)
		H ₂ SO ₄	6.00	(6)
		NO _x	5.00	(6)
		PM	0.37	(6)
		PM ₁₀	0.37	(6)
		PM _{2.5}	0.37	(6)
		SO ₂	258.27	(6)
		VOC	0.27	(6)
	Shutdown	H ₂ SO ₄	7.00	(6)
		NO _x	3.56	(6)
		SO ₂	123.75	(6)
	Annual MSS (7)	CO	--	0.16
		H ₂ SO ₄	--	0.25
		NO _x	--	0.35
		PM	--	0.01
		PM ₁₀	--	0.01
		PM _{2.5}	--	0.01
		SO ₂	--	4.70
		VOC	--	0.01

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SA-03	Sulfur Storage Tank	H ₂ S	0.31	0.15
		SO ₂	0.01	<0.01
		Sulfur	0.80	0.39
SA-04	Sulfur Unloading Pit	H ₂ S	0.16	0.03
		SO ₂	0.03	0.01
		Sulfur	0.43	0.07
SA-05	Sulfur Transfer Pit	H ₂ S	0.01	0.03
		SO ₂	0.01	0.01
		Sulfur	0.03	0.07
SA-06	Non-Fuming and Fuming Acid Loading	H ₂ SO ₄	<0.01	<0.01
		SO ₂	<0.01	<0.01
SA-07	Drip Acid Tank	H ₂ SO ₄	<0.01	<0.01
SA-08	Blend Tank	H ₂ SO ₄	<0.01	<0.01
		SO ₂	<0.01	<0.01
SA-10	H ₂ S Scrubber Vent	H ₂ S	<0.01	<0.01
		SO ₂	0.04	0.02
		Sulfur	0.46	0.14
SA-16	Maintenance Fume Scrubber	H ₂ SO ₄	0.05	0.04
SA-MSS	Maintenance Line and Vessel Clearing to Atmosphere	H ₂ SO ₄	0.45	0.06
		SO ₂	2.04	0.39
SA-VACMSS	Vacuum Trucks	H ₂ SO ₄	<0.01	<0.01
SA-MSSLOEM	Inherently Low Emitting	H ₂ S	<0.01	<0.01
		H ₂ SO ₄	<0.01	<0.01

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		NO _x	0.15	0.01
		PM	0.34	0.02
		PM ₁₀	0.34	0.02
		PM _{2.5}	0.34	0.02
		SO ₂	<0.01	<0.01
SA-FUG1	Sulfur Area Fugitives	H ₂ S	<0.01	<0.01
		SO ₃	<0.01	<0.01
SA-FUG2	H2SO4 Area Fugitives	SO ₂	<0.01	<0.01
		SO ₃	0.02	0.07

- (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)
 - CO - carbon monoxide
 - H₂S - hydrogen sulfide
 - H₂SO₄ - sulfuric acid
 - NO_x - total oxides of nitrogen
 - PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - SO₂ - sulfur dioxide
 - SO₃ - sulfur trioxide
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) The combined annual emissions from the Source Names Startup and Shutdown may not exceed the rates shown for the Source Name Annual MSS.
- (7) Planned Maintenance, Startup, and Shutdown (MSS).

Date: 2017