

Emission Sources - Maximum Allowable Emission Rates

Permit Number 76165

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)
EP-N1	North Main Stack	SO ₂	40.00	45.99
		NO _x	27.60	31.73
		CO	20.00	23.00
		VOC	0.40	0.46
		PM ₁₀	4.00	4.60
EP-S1	South Main Stack	SO ₂	40.00	45.99
		NO _x	27.60	31.73
		CO	20.00	23.00
		VOC	0.40	0.46
		PM ₁₀	4.00	4.60
EP-N2	North Startup Vent	SO ₂	0.11	0.01
		NO _x	1.12	0.06
		CO	0.94	0.05
		VOC	0.06	0.01
		PM ₁₀	0.09	0.01
EP-S2	South Startup Vent	SO ₂	0.11	0.01
		NO _x	1.12	0.06
		CO	0.94	0.05
		VOC	0.06	0.01
		PM ₁₀	0.09	0.01

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EP-N1, EP-S1	Main Stack Emissions	SO ₂	40.00	91.98
		NO _x	27.60	63.46
		CO	20.00	46.00
		VOC	0.40	0.92
		PM ₁₀	4.00	9.20
EP-N2, EP-S2	Startup Vent Emissions	SO ₂	0.11	0.02
		NO _x	1.12	0.12
		CO	0.94	0.10
		VOC	0.06	0.01
		PM ₁₀	0.09	0.01
EP-3	Tank Truck Transfer	H ₂ SO ₄	0.01	0.01
		VOC	0.01	0.01
EP-4	Railcar Transfer	H ₂ SO ₄	0.01	0.01
		VOC	0.01	0.01
EP-5	Railcar Transfer	H ₂ SO ₄	0.01	0.01
		VOC	0.01	0.01
EP-35	Railcar Transfer	H ₂ SO ₄	0.01	0.01
		VOC	0.01	0.01
EP-6	Spent Acid Storage	H ₂ SO ₄	0.01	0.01
		VOC	0.01	0.01
EP-8	Fresh Acid Storage	H ₂ SO ₄	0.01	0.01
EP-9	Fresh Acid Storage	H ₂ SO ₄	0.01	0.01
EP-10	Fugitives (5)	H ₂ SO ₄	0.02	0.07

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		VOC	0.01	0.01
		H ₂ S	0.06	0.24
		NH ₃	0.01	0.02
Planned Maintenance, Startup, and Shutdown (MSS) Activities:				
EP-N1	Startup Emissions	SO ₂	64.00	3.20
		NO _x	44.16	2.24
		CO	32.00	1.64
		VOC	0.64	0.04
		PM ₁₀	6.40	0.33
EP-S1	Startup Emissions	SO ₂	64.00	3.20
		NO _x	44.16	2.24
		CO	32.00	1.64
		VOC	0.64	0.04
		PM ₁₀	6.40	0.33
EP-N2	Shutdown (Transition) Emissions	SO ₂	20.00	0.10
		NO _x	13.80	0.07
		CO	10.00	0.05
		VOC	0.20	0.01
		PM ₁₀	2.00	0.01
EP-S2	Shutdown (Transition) Emissions	SO ₂	20.00	0.10
		NO _x	13.80	0.07
		CO	10.00	0.05
		VOC	0.20	0.01
		PM ₁₀	2.00	0.01
EP-N1, EP-S1	Main Stack Startup Emissions	SO ₂	64.00	6.40

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		NO _x	44.16	4.47
		CO	32.00	3.28
		VOC	0.64	0.07
		PM ₁₀	6.40	0.65
EP-N2, EP-S2	Shutdown (Transition) Emissions	SO ₂	20.00	0.20
		NO _x	13.80	0.14
		CO	10.00	0.10
		VOC	0.20	0.01
		PM ₁₀	2.00	0.02
EP-11	Storage Tanks MSS	H ₂ SO ₄	0.01	0.01
EP-12	Maintenance Scrubber	H ₂ SO ₄	0.19	0.05
		SO ₂	1.13	0.28
		H ₂ S	0.08	0.02
		NH ₃	0.04	0.01
EP-14	Equipment Draining	H ₂ SO ₄	0.01	0.01
EP-29	Painting	VOC	344.45	0.44
EP-31	Sandblasting	PM ₁₀	1.56	0.01
EP-32	Welding	PM ₁₀	0.82	0.04
EP-33	Catalyst Handling	PM ₁₀	0.18	0.01
EP-16	Mobile Equipment	SO ₂	0.29	0.07
		NO _x	4.41	1.10
		CO	0.95	0.24
		VOC	0.01	0.01
		PM ₁₀	0.31	0.08

Emission Sources - Maximum Allowable Emission Rates

- (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
 - NO_x - total oxides of nitrogen
 - CO - carbon monoxide
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - 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 particulate matter greater than 10 microns is not emitted. PM₁₀ includes sulfuric acid mist.
 - H₂S - hydrogen sulfide
 - H₂SO₄ - sulfuric acid mist
 - NH₃ - ammonia
- (4) Compliance with annual emission limits expressed in tons per year (TPY) 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.

Date: _____