Emission Sources - Maximum Allowable Emission Rates

Permit Number 171146

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)		Air Contaminant Name (3)	Emission Rates (6)	
Emission Point No. (1)		All Contaminant Name (3)	lbs/hour	TPY (4)
H4102	Amine Reboiler Stack No. 1 (54.60 MMBtu/hr) (Natural gas)	РМ	0.17	
		PM ₁₀	0.17	
		PM _{2.5}	0.17	
		VOC	0.16	
		NOx	1.99	
		SO ₂	0.03	
		СО	2.02	
H4103	Amine Reboiler Stack No. 2 (54.60 MMBtu/hr) (Natural gas)	РМ	0.17	
		PM10	0.17	
		PM2.5	0.17	
		VOC	0.16	
		NOX	1.99	
		SO2	0.03	
		СО	2.02	
H4104	Amine Reboiler Stack No. 3 (54.60 MMBtu/hr) (Natural gas)	РМ	0.17	
		PM10	0.17	
		PM2.5	0.17	
		VOC	0.16	
		NOX	1.99	
		SO2	0.03	
		СО	2.02	
	Total Annual Reboiler Emissions from Natural Gas (Boiler Nos. H4102, H4103, H4104)	РМ		1.49
		PM10		1.49
		PM2.5		1.49

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		VOC		1.43
		NO _X		17.42
		SO ₂		0.28
		со		17.67
TEG 1	TEG Reboiler Stack	PM	<0.01	<0.01
	(0.231 MMBtu/hr) (Natural gas)	PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
		VOC	<0.01	<0.01
		NO _X	0.03	0.13
		SO ₂	<0.01	<0.01
		СО	0.02	0.10
F1	Flare with Natural Gas Pilot	NO _x	18.72	4.33
	Pilot	СО	160.52	37.14
		SO ₂	24.94	5.90
		VOC	0.01	<0.01
		H ₂ S	0.27	0.06
F2	Flare with Natural Gas Pilot	NO _x	18.72	4.33
	Filot	СО	160.53	37.14
		SO ₂	24.94	5.90
		VOC	0.01	<0.01
		H ₂ S	0.27	0.06
S1	Amine and Iron Chelate Unit Acid	H ₂ S	0.16	0.69
	Tailgas Vent Stack	voc	<0.01	<0.01
S2	Spent Air Vent	voc	<0.01	<0.01
TEG2	TEG Dehydrator Still Vent Stack	H ₂ S	<0.01	<0.01
	VEIIL SLACK	voc	0.11	0.48
FUGFL	Flare Piping Fugitives	H ₂ S	<0.01	<0.01
	(5)	VOC	<0.01	<0.01
FUGLAG	Lagoon Cover Piping Fugitives (5)	H ₂ S	0.02	0.07

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FUGPLT	Amine Plant Fugitives (5)	H ₂ S	0.05	0.23
		voc	1.97	8.44
SLP1	Slop Tank 1 Vent	H ₂ S	<0.01	<0.01
		voc	<0.01	<0.10
SLP2	Slop Tank 2 Vent	H ₂ S	<0.01	<0.01
		VOC	<0.01	<0.01
SLP3	Slop Tank 3 Vent	H₂S	<0.01	<0.01
		VOC	<0.01	<0.01
V-4286	IC-110 Bulk Tank 1 Vent	VOC	0.13	0.02
V-4287	IC-110 Bulk Tank 2 Vent	VOC	0.13	0.02
V-4288	IC-110 Bulk Tank 3 Vent	VOC	0.13	0.02
V-4289	IC-210 Bulk Tank Vent	VOC	0.13	0.02
IC-110	IC-110 Tote	VOC	0.01	<0.01
IC-210	IC-210 Tote	VOC	0.01	<0.01
1				

(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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM10 and PM2.5, as

represented

PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM2.5, as

represented

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide H_2S - hydrogen sulfide

(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) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date:	September 1, 2023

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