

Emission Sources - Maximum Allowable Emission Rates

Permit Number 20289

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)
106	Storage Tank	VOC	1.37	3.41
107	Storage Tank	VOC	3.31	5.19
108	Storage Tank	VOC	3.31	5.19
107 & 108	Storage Tanks Annual Cap	VOC	---	5.56
111	Storage Tank	VOC	0.06	0.09
117	OSBL Tank Area Fugitives (5)	VOC	0.43	1.93
TRLoad	Truck Load Uncaptured Emissions	VOC	0.66	1.92
NGST-FLARE	Natural Gasoline Storage Flare (7)	CO	3.18	7.97
		NO _x	1.60	4.00
		SO ₂	0.02	0.04
		VOC	0.90	2.05
	MSS	CO	1.96	0.03
		NO _x	0.98	0.02
		SO ₂	0.01	<0.01
		VOC	3.64	0.05
MSS-FLARE	Temporary Flare (7)	CO	16.99	0.10
		NO _x	8.52	0.05
		SO ₂	0.01	0.01
		VOC	31.60	0.17
NGST-FLARE, MSS-FLARE	MSS flare CAP (7)	CO	286.14	9.66
		NO _x	143.44	4.84

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		SO ₂	0.01	<0.01
		VOC	532.32	16.76
MSS-ATM	MSS	VOC	117.50	0.32
Liquid Natural Gas (NGL) Marine Loading Facility				
WSAC1	WSAC System – Train 1	PM	0.57	2.49
		PM ₁₀	0.27	1.19
		PM _{2.5}	0.01	0.01
WSAC2	WSAC System – Train 2	PM	0.57	2.49
		PM ₁₀	0.27	1.19
		PM _{2.5}	0.01	0.01
HTR1	Regeneration Heater No 1 – Train 1	CO	0.77	3.36
		NO _x	0.32	1.40
		SO ₂	0.02	0.08
		VOC	0.07	0.30
		PM	0.10	0.42
		PM ₁₀	0.10	0.42
		PM _{2.5}	0.10	0.42
	Regeneration Heater No 1 – Start-up and shutdown	CO	1.54	0.02
		NO _x	0.64	0.01

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HTR2	Regeneration Heater No 2 – Train 2	CO	0.77	3.36
		NO _x	0.32	1.40
		SO ₂	0.02	0.08
		VOC	0.07	0.30
		PM	0.10	0.42
		PM ₁₀	0.10	0.42
		PM _{2.5}	0.10	0.42
	Regeneration Heater No 2 – Start-up and shutdown	CO	1.54	0.02
		NO _x	0.64	0.01
FUG-1	Process Fugitives Train 1 (5)	VOC	0.23	1.03
FUG-2	Process Fugitives Train 2 (5)	VOC	0.23	1.03
TO-1	Thermal Oxidizer Dry Dock Vessel Purging (8)	CO	20.57	0.12
		NO _x	15.32	0.11
		VOC	0.68	0.03
		PM	1.63	1.63
		PM ₁₀	1.63	1.63
		PM _{2.5}	1.63	1.63
TO-PORT	Thermal Oxidizer Dry Dock Vessel Purging (8)	CO	20.57	0.12
		NO _x	15.32	0.11
		VOC	0.68	0.03
		PM	1.63	0.02
		PM ₁₀	1.63	0.02
		PM _{2.5}	1.63	0.02

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TO-1, TO-PORT	Thermal Oxidizer Dry Dock Vessel Purging Annual Emissions CAP (8)	CO	----	0.12
		NO _x	----	0.11
		VOC	----	0.03
		PM	----	0.02
		PM ₁₀	----	0.02
		PM _{2.5}	----	0.02
Flare-1	Flare (Normal and Purge)	CO	98.88	55.90
		NO _x	44.50	27.71
		SO ₂	1.51	0.73
		VOC	106.65	41.16
		H ₂ S	<0.01	0.01
	Flare (MSS)	CO	920.68	14.06
		NO _x	609.49	4.98
		VOC	1011.99	15.72
		SO ₂	<0.01	<0.01
	MSS-ATM2	VOC	23.16	0.01
NGL Facility Maintenance, Startup, and Shutdown Activities				

(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 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

CO - carbon monoxide

Cl₂ - chlorine

HCl - hydrogen chloride

H₂S/TRS - hydrogen sulfide/total reduced sulfur

MEOH - methanol

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

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- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) MEOH emissions are included in the VOC emission rates.
- (7) Total MSS emissions from NGST-FLARE and MSS-FLARE may not exceed the hourly and annual flare MSS CAP.
- (8) Thermal Oxidizers TO-1 and TO-PORT shall not operate at the same time. Combined annual emissions from both TOs shall not exceed the CAP.

Date: October 28, 2020