Emission Sources - Maximum Allowable Emission Rates

Permit Number 93973

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)
DEGAS-A	Brine Degasser A	CO	0.01	0.01
		NO_x	0.01	0.01
		SO_2	0.01	0.01
		VOC	0.01	0.01
DEGAS-B	Brine Degasser B	CO	0.01	0.01
		NO_x	0.01	0.01
		SO_2	0.01	0.01
		VOC	0.01	0.01
DEGAS-C	Brine Degasser C	CO	0.01	0.01
		NO_x	0.01	0.01
		SO_2	0.01	0.01
		VOC	0.01	0.01
DEGAS-DE	Brine Degasser DE	CO	0.01	0.01
		NO_x	0.01	0.01
		SO_2	0.01	0.01
		VOC	0.01	0.01
D-TANK-1	Diesel Tank No. 1	VOC	0.02	<0.01
D-TANK-2	Diesel Tank No. 2	VOC	0.02	<0.01
EQUIP-D-TANK	Equipment Diesel Tank	VOC	<0.01	<0.01
FL-06	East Flare (Normal Production Operations)	CO	99.35	-
		NO_x	64.92	-
		SO_2	0.16	-
		VOC	88.23	-
FL-08	West Flare (Normal Production	CO	99.24	-

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		NO_x	64.89	-
		SO_2	0.16	-
		VOC	88.22	-
FL-06/FL-08CAP	Annual Emission Cap East Flare, West Flare and Temporary Flares including MSS-FLARE (8)	CO	-	51.18
		NO_x	-	30.48
		SO_2		0.03
		VOC		45.32
FL-COLD	Cold Flare	CO	5.07	10.78
		NO_x	1.27	2.71
		SO_2	0.01	0.01
		VOC	4.15	3.61
MSS-FLARE	Planned MSS and Turnaround Flaring Activities Through FL-06, FL-08, or Temporary Flares (8)	CO	1232.24	-
		NO_x	617.24	
		SO_2	0.25	-
		VOC	2279.19	-
MSS-FL-COLD	MSS Emissions from Cold Flare	CO	44.82	1.25
		NO_x	11.25	0.31
		VOC	39.73	1.10
CWT-1	Cooling Tower (5)	VOC	0.11	0.49
		PM	0.06	0.25
		PM_{10}	0.02	0.09
		$PM_{2.5}$	<0.01	<0.01
FW-1	Fire Water Engine No. 1 (6)	CO	3.41	0.17
		NO_x	15.81	0.79
		PM	1.12	0.06
		PM_{10}	1.12	0.06
		$PM_{2.5}$	1.12	0.06
		SO_2	1.05	0.05
		VOC	1.28	0.06

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FW-2	Fire Water Engine No. 2 (6)	CO	2.81	0.14
		NO_x	13.02	0.65
		PM	0.92	0.05
		PM_{10}	0.92	0.05
		$PM_{2.5}$	0.92	0.05
		SO_2	0.86	0.04
		VOC	1.05	0.05
H-1401	Mole Sieve Regeneration Heater	CO	0.80	3.49
		NO_x	0.95	4.16
		PM	0.07	0.32
		PM_{10}	0.07	0.32
		$PM_{2.5}$	0.07	0.32
		SO_2	0.01	0.02
		VOC	0.05	0.23
H-1402	Mole Sieve Regeneration Heater	CO	0.80	3.49
		NO_x	0.95	4.16
		PM	0.07	0.32
		PM_{10}	0.07	0.32
		$PM_{2.5}$	0.07	0.32
		SO_2	0.01	0.02
		VOC	0.05	0.23
H-2401	Mole Sieve Regeneration Heater	CO	0.80	3.49
		NO_x	0.95	4.16
		PM	0.07	0.32
		PM_{10}	0.07	0.32
		$PM_{2.5}$	0.07	0.32
		SO_2	0.01	0.02
		VOC	0.05	0.23
H-3401	Mole Sieve Regeneration Heater	CO	0.85	3.71

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		NO_x	1.01	4.42
		PM	0.08	0.34
		PM_{10}	0.08	0.34
		$PM_{2.5}$	0.08	0.34
		SO_2	0.01	0.03
		VOC	0.06	0.24
REGEN-1	Regeneration Heater	CO	1.41	1.76
		NO_x	1.33	3.33
		PM	0.14	0.35
		PM_{10}	0.14	0.35
		$PM_{2.5}$	0.14	0.35
		SO_2	0.01	0.03
		VOC	0.10	0.26
HT15.003	Hot Oil Heater	CO	1.48	3.24
		NO_x	1.06	4.64
		PM	0.15	0.65
		PM_{10}	0.15	0.65
		$PM_{2.5}$	0.15	0.65
		SO_2	0.01	0.05
		VOC	0.11	0.47
POND-A	Brine Pond A	VOC	0.01	0.05
POND-B	Brine Pond B	VOC	0.01	0.05
POND-C	Brine Pond C	VOC	0.01	0.05
POND-D	Brine Pond D	VOC	0.01	0.05
POND-E	Brine Pond E	VOC	0.01	0.05
F-100	Salt Dome Process Fugitives (5)	VOC	1.80	7.90
F-3.01	Splitter I Process Fugitives (5)	VOC	0.71	3.11
F-BULLETS	NGL Storage Process Fugitives (5)	VOC	0.76	3.35

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F-3.02	Splitter II Process Fugitives (5)	VOC	0.68	2.98
F-3.03	Splitter III Process Fugitives (5)	VOC	0.70	3.06
F-DEHY	Ethylene Dehydrator Fugitives (5)	VOC	2.49	10.88
MSS-ATM	Planned MSS and Turnaround Emissions Directly to the Atmosphere (7)	PM	3.66	0.02
		PM_{10}	1.73	0.01
		$PM_{2.5}$	0.26	<0.01
		VOC	152.81	1.09

(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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
HRVOC - highly reactive volatile organic compounds as defined in 30 TAC § 115.10
IOC-U - inorganic compounds (unspeciated)
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - 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
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
(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) 100 hours per year of operation.
(7) The MSS-ATM emission includes 26.98 lbs/hr and 0.74 tpy of VOC emissions from inherently low emitting activities listed in Attachment A of the Special Conditions. These emission rates shall be assumed to occur during any hour or 12-month rolling period where emission compliance is evaluated for EPN MSS-ATM.
(8) Additional frequency and duration of MSS activities routed to temporary flares may be authorized under Permit by Rule or Standard Permits.

Date: March 28, 2022