Permit Number 100787 and PSDTX1314M1

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	Emission Rates	
		(3)	lbs/hour	TPY (4)
OC4H310	PDH-1Heater H-310	NO _x	15.00	-
		со	8.95	-
		CO (7)	130.32	-
		SO ₂	3.55	-
		PM	1.25	-
		PM ₁₀	1.25	-
		PM _{2.5}	1.25	-
		VOC (6)	1.29	-
		Ethylene	0.05	-
		Propylene	0.13	-
OC4H320	PDH-1 Heater H-320	NO _x	15.00	-
		со	8.95	-
		CO (7)	130.32	-
		SO ₂	3.55	-
		PM	1.25	-
		PM ₁₀	1.25	-
		PM _{2.5}	1.25	-
		VOC (6)	1.29	-
		Ethylene	0.05	-
		Propylene	0.13	-

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OC4H330	PDH-1 Heater H-330	NO _x	15.00	-
		со	8.95	-
		CO (7)	130.32	-
		SO ₂	3.55	-
		PM	1.25	-
		PM ₁₀	1.25	-
		PM _{2.5}	1.25	-
		VOC (6)	1.29	-
		Ethylene	0.05	-
		Propylene	0.13	-
OC4H340	PDH-1 Heater H-340	NO _x	13.80	-
		СО	8.95	-
		CO (7)	130.32	-
		SO ₂	3.27	-
		PM	1.15	-
		PM ₁₀	1.15	-
		PM _{2.5}	1.15	-
		VOC (6)	1.19	-
		Ethylene	0.05	-
		Propylene	0.12	-

OC4H310	PDH-1 Heater H-310	NO _x	_	152.21
OC4H320 OC4H330 OC4H340	PDH-1 Heater H-320 PDH-1 Heater H-330	CO	-	118.46
	PDH-1 Heater H-340	SO ₂	-	3.92
		PM	-	15.22
		PM ₁₀	-	15.22
		PM _{2.5}	-	15.22
		VOC (6)	-	16.64
		Ethylene	-	0.66
		Propylene	-	1.55
OC4F9551	Multi-Point Ground Flare FX- 955 (Routine)	со	47.53	-
	955 (Routine)	NO _x	9.23	-
		VOC (6)	26.69	-
		Ethylene	0.30	-
		Propylene	8.28	-
		SO ₂	1.36	-
OC4F9552	Multi-Point Ground Flare FX- 955 (MSS) (8)	со	1415.64	-
	900 (W33) (0)	NO _x	709.10	-
		VOC (6)	1280.27	-
		Ethylene	90.08	-
		Propylene	435.21	-
		SO ₂	40.00	-
OC4F956	Merox Elevated Flare FS-956	со	1.41	-
		NO _x	0.35	-
		VOC (6)	0.02	-
		SO ₂	0.04	-

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0045050	Marray Flavotad Flava FC 0FC			
OC4F956	Merox Elevated Flare FS-956 (MSS)	СО	36.70	-
		NO _x	9.21	-
		VOC (6)	8.05	-
		Ethylene	0.05	-
		Propylene	0.06	-
		SO ₂	8.56	-
OC4F957	Low Pressure Flare FS-957	со	7.93	-
		NO _x	1.56	-
		VOC (6)	2.13	-
		Ethylene	0.01	-
		Propylene	0.17	-
		SO ₂	0.18	-
OC4F957	Low Pressure Flare FS-957 (MSS)	со	8.34	-
		NO _x	1.64	-
		VOC (6)	2.13	-
		Ethylene	0.01	-
		Propylene	0.17	-
		SO ₂	0.18	-
OC4F9551 OC4F956	Flare Annual Source Cap	со	-	130.72
OC4F956 OC4F9557 OC4F9552		NO _x	-	35.58
		VOC (6)	-	40.94
		Ethylene	-	2.30
		Propylene	-	14.62
		SO ₂	-	1.32

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OC4CT900	Cooling Tower CT-900	VOC (6)	1.88	8.22
		Ethylene	0.06	0.25
		Propylene	1.86	8.14
		PM	0.50	2.20
		PM ₁₀	0.27	1.19
		PM _{2.5}	0.27	1.19
OC4FU2	PDH-1 Fugitives (5)	VOC (6)	3.74	16.01
		Ethylene	0.04	0.17
		Propylene	1.50	6.53
		HCI	0.01	0.02
		Cl ₂	0.04	0.18
OC4SV485	CCR Vent Scrubber T-485	со	1.82	7.95
		NO _x	0.15	0.65
		HCI	0.12	0.52
		SO ₂	0.21	0.91
		Cl ₂	0.23	0.99
OC4DL460	Catalyst Fines Drum Loading, D-460	PM	0.20	0.01
	D-400	PM ₁₀	0.20	0.01
		PM _{2.5}	0.20	0.01
OC4O470	Catalyst Addition Drum	PM	0.98	0.01
	Hopper, D-470	PM ₁₀	0.98	0.01
		PM _{2.5}	0.98	0.01
OC4ST122	Storage Tank V-122 Vent	VOC (6)	0.05	0.01
OC4ST905	HCl Storage Tank V-905	HCI	0.02	0.01

00405000	Dealing Con 1 DC 000			
OC4GE860	Backup Generator DG-860	СО	0.40	0.02
		NO _x	3.27	0.16
		SO ₂	0.01	0.01
		PM	0.09	0.01
		PM ₁₀	0.09	0.01
		PM _{2.5}	0.09	0.01
		voc	0.11	0.01
OC4MED470	Catalyst Replacement (MSS)	PM	1.76	0.38
		PM ₁₀	1.76	0.38
		PM _{2.5}	1.76	0.38
OC4DL458	D-458 Catalyst Fines	PM	0.01	0.01
	Drumming	PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
OC4DL459	D-459 Catalyst Fines	PM	0.01	0.01
	Drumming	PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
OC4DL468	D-468 Catalyst Fines	PM	0.01	0.01
	Drumming	PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
OC4DL469	D-469 Catalyst Fines	PM	0.01	0.01
	Drumming	PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
OC4MEFP310	H-310 Fuel Purge (MSS)	voc	0.01	0.01
OC4MEFP320	H-320 Fuel Purge (MSS)	voc	0.01	0.01
OC4MEFP330	H-330 Fuel Purge (MSS)	voc	0.01	0.01
OC4MEFP340	H-340 Fuel Purge (MSS)	voc	0.01	0.01
OC4MEFU2	Equipment Opening Fugitives (MSS)	voc	722.96	0.99
	Attachment A Activities (MSS)	VOC	4.71	0.35

⁽¹⁾ Emission point identification - either specific equipment designation or emission point number from plot plan.

NO_x Project Number: 352289

⁽²⁾ Specific point source name. For fugitive sources, use area name or fugitive source name.

volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
total oxides of nitrogen (3) VOC

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Emission Sources - Maximum Allowable Emission Rates

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 HCl - hydrogen chloride

Cl₂ - chlorine

- (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) VOC includes speciated ethylene and propylene emissions.
- (7) CO emission rates allowable only during low firing mode unless otherwise noted.
- (8) Startup and Shutdown activities for the Multipoint Ground Flare do not occur simultaneously, therefore, the hourly emission rate is based on the maximum emissions from the Startup and Shutdown scenarios. The annual emissions are the sum of the Startup and Shutdown scenario emissions.

Date:	November 10, 2023
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