## 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

<b>Emission Point No. (1)</b>	Source Name (2)	Air Contaminant Name	Emission Rates	
		(3)	lbs/hour	TPY (4)
OC4H310	PDH-1Heater H-310	NO <sub>x</sub>	13.80	-
		со	8.95	-
		CO (7)	130.32	-
		SO <sub>2</sub>	3.27	-
		PM	1.15	-
		PM <sub>10</sub>	1.15	-
		PM <sub>2.5</sub>	1.15	-
		VOC (6)	1.19	-
		Ethylene	0.05	-
		Propylene	0.12	-
OC4H320	PDH-1 Heater H-320	NO <sub>x</sub>	13.80	-
		со	8.95	-
		CO (7)	130.32	-
		SO <sub>2</sub>	3.27	-
		PM	1.15	-
		PM <sub>10</sub>	1.15	-
		PM <sub>2.5</sub>	1.15	-
		VOC (6)	1.19	-
		Ethylene	0.05	-
		Propylene	0.12	-

OC4H330	PDH-1 Heater H-330	NO <sub>x</sub>	13.80	-
		СО	8.95	-
		CO (7)	130.32	-
		SO <sub>2</sub>	3.27	-
		PM	1.15	-
		$PM_{10}$	1.15	-
		PM <sub>2.5</sub>	1.15	-
		VOC (6)	1.19	-
		Ethylene	0.05	-
		Propylene	0.12	-
OC4H340	PDH-1 Heater H-340	NO <sub>x</sub>	13.80	-
		СО	8.95	-
		CO (7)	130.32	-
		SO <sub>2</sub>	3.27	-
		PM	1.15	-
		$PM_{10}$	1.15	-
		PM <sub>2.5</sub>	1.15	-
		VOC (6)	1.19	-
		Ethylene	0.05	-
		Propylene	0.12	-
OC4H310 OC4H320	PDH-1 Heater H-310 PDH-1 Heater H-320	NO <sub>x</sub>	-	152.21
OC4H330 OC4H340	PDH-1 Heater H-330 PDH-1 Heater H-340	СО	-	118.45
00411040	1 DIT-1 Heater H-340	SO <sub>2</sub>	-	3.92
		PM	-	15.22
		PM <sub>10</sub>	-	15.22
		PM <sub>2.5</sub>	-	15.22
		VOC (6)	-	16.64
		Ethylene	-	0.66

		Propylene	-	1.55
OC4F9551	Multi-Point Ground Flare FX-	со	47.53	-
		NO <sub>x</sub>	9.23	-
		VOC (6)	26.69	-
		Ethylene	0.30	-
		Propylene	8.28	-
		SO <sub>2</sub>	1.36	-
OC4F9552	Multi-Point Ground Flare FX-	со	1415.64	-
		NO <sub>x</sub>	709.10	-
		VOC (6)	1280.27	-
		Ethylene	90.08	-
		Propylene	435.21	-
		SO <sub>2</sub>	40.00	-
OC4F956	Merox Elevated Flare FS-956	СО	1.41	-
		NO <sub>x</sub>	0.35	-
		VOC (6)	0.02	-
		SO <sub>2</sub>	0.04	-

OC4F956	Merox Elevated Flare FS-956	СО	36.70	-
	(MSS)	NO <sub>x</sub>	9.21	-
		VOC (6)	8.05	-
		Ethylene	0.05	-
		Propylene	0.06	-
		SO <sub>2</sub>	8.56	-
OC4F957	Low Pressure Flare FS-957	СО	7.93	-
		NO <sub>x</sub>	1.56	-
		VOC (6)	2.13	-
		Ethylene	0.01	-
		Propylene	0.17	-
		SO <sub>2</sub>	0.18	-
OC4F957	Low Pressure Flare FS-957 (MSS)	СО	8.34	-
	(IVI33)	NO <sub>x</sub>	1.64	-
		VOC (6)	2.13	-
		Ethylene	0.01	-
		Propylene	0.17	-
		SO <sub>2</sub>	0.18	-
OC4F9551 OC4F956	Flare Annual Source Cap	со	-	130.72
OC4F957 OC4F9552		NO <sub>x</sub>	-	35.58
OC4F9552		VOC (6)	-	40.94
		Ethylene	-	2.30
		Propylene	-	14.62
		SO <sub>2</sub>	-	1.32
ОС4СТ900	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 <sub>10</sub>	0.27	1.19
		PM <sub>2.5</sub>	0.27	1.19
OC4FU2	PDH-1 Fugitives (5)	VOC (6)	3.92	17.01
		Ethylene	0.04	0.16
		Propylene	1.43	6.23
		HCI	0.01	0.02
		Cl <sub>2</sub>	0.04	0.18
OC4SV485	CCR Vent Scrubber T-485	СО	1.82	7.95
		NO <sub>x</sub>	0.15	0.65
		HCI	0.12	0.52
		SO <sub>2</sub>	0.21	0.91
		Cl <sub>2</sub>	0.23	0.99
OC4DL460	Catalyst Fines Drum Loading, D-460	PM	1.82	0.17
	D-400	PM <sub>10</sub>	1.82	0.17
		PM <sub>2.5</sub>	1.82	0.17
OC4O470	Catalyst Addition Drum	PM	1.82	0.17
		PM <sub>10</sub>	1.82	0.17
		PM <sub>2.5</sub>	1.82	0.17
OC4ST122	Storage Tank V-122 Vent	VOC (6)	0.03	0.01
OC4ST905	HCI Storage Tank V-905	HCI	0.01	0.01
OC4GE860	Backup Generator DG-860	со	0.40	0.02
		NO <sub>x</sub>	3.27	0.16
		SO <sub>2</sub>	0.01	0.01
		PM	0.09	0.01
		PM <sub>10</sub>	0.09	0.01
		PM <sub>2.5</sub>	0.09	0.01
		VOC	0.11	0.01
OC4MED470	Catalyst Replacement (MSS)	PM	44.19	9.54

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## Emission Sources - Maximum Allowable Emission Rates

(1) Emission point ide	entification - either specific equipm	ent designation or emission $\mathfrak{p}_{M_{10}}$	gint number from plot	olan 9.54
(2) Specific point sou	ırce name. For fugitive sources, us			
(3) VOC	<ul> <li>volatile organic compounds as</li> </ul>	defined in Title 30 Texas Ad	ក្សាគ្រាន្តែអ្នative Code § 101	L <sub>9</sub> 1.54
NO <sub>x</sub>	<ul> <li>total oxides of nitrogen</li> </ul>			
OC\$10 EFP310	- sակինային անագրության - sulfusion - sul	VOC	0.01	0.01
PM	- tomalsomitticulate matter, suspen	ded in the atmosphere, inclu	ding $PM_{10}$ and $PM_{2.5}$ , a	s represented
ОС₽МБРЭ320	- totta B 2 6 r Ficual la Reurge t (M Seq) ual to	φ <b>ι/(es</b> s than 10 microns in d	ianneter, including PM <sub>2</sub> .	50.6 <b>0</b> 9 <u>1</u>
	represented			
OCPMEFP330	- patassoaterenaturge (Mass) or le	es <b>s/tha</b> n 2.5 microns in diame	toen 1	0.01
СО	- carbon monoxide		0.02	
OCHIMEFP340	- htteaperuelleringe (MSS)	1/00	0.01	0.01
OCHIVILIF 340	, ,	VOC	0.01	0.01
	- ¢hlorine			
	annuatiquingsont Annesinortsysetiyos			0.99
(5) Emission rate is a	an est(Mate and is enforceable thro	ubh compliance with the app	icable special condition	n(s) and
permit application	representations A Activities (MSS	) voc		0.35
	ociated athylana and propylana am			

(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: June 23, 2017
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