Permit Number 107153, PSDTX1328M2, and N260

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)
OC2H121	Cracking Furnace, F- 121	со	21.51	
	(a.k.a. Heater H-121)	NOx	8.97	
		SO ₂	8.50	
		PM	2.50	
		PM ₁₀	2.50	
		PM _{2.5}	2.50	
		VOC (6)	1.26	
		Ethylene	1.20	
		NH₃	2.62	
		H ₂ SO ₄	0.52	
OC2H122	Cracking Furnace, F- 122 (a.k.a. Heater H-122)	со	21.51	
		NO _X	8.97	
		SO ₂	8.50	
		PM	2.50	
		PM ₁₀	2.50	
		PM _{2.5}	2.50	
		VOC (6)	1.26	
		Ethylene	1.20	
		NH ₃	2.62	
		H ₂ SO ₄	0.52	
OC2H123	Cracking Furnace, F- 123	со	21.51	
	(a.k.a. Heater H-123)	NO _X	8.97	
		SO ₂	8.50	
		PM	2.50	

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		PM ₁₀	2.50	
		PM _{2.5}	2.50	
		VOC (6)	1.26	
		Ethylene	1.20	
		NH ₃	2.62	
		H ₂ SO ₄	0.52	
OC2H124	Cracking Furnace, F- 124	со	21.51	
	(a.k.a. Heater H-124)	NO _X	8.97	
		SO ₂	8.50	
		РМ	2.50	
		PM ₁₀	2.50	
		PM _{2.5}	2.50	
		VOC (6)	1.26	
		Ethylene	1.20	
		NH ₃	2.62	
		H ₂ SO ₄	0.52	
C2H125	Cracking Furnace, F- 125	со	21.51	
	(a.k.a. Heater H-125)	NO _X	8.97	
		SO ₂	8.50	
		РМ	2.50	
		PM ₁₀	2.50	
		PM _{2.5}	2.50	
		VOC (6)	1.26	
		Ethylene	1.20	
		NH ₃	2.62	
		H ₂ SO ₄	0.52	
OC2H126	Cracking Furnace, F- 126	со	21.55	
	(a.k.a. Heater H-126)	NO _X	8.99	
		SO ₂	8.51	

		PM	2.50	
		PM ₁₀	2.50	
		PM _{2.5}	2.50	
		VOC (6)	1.27	
		Ethylene	1.21	
		NH₃	2.63	
		H ₂ SO ₄	0.52	
OC2H127	Cracking Furnace, F-	со	21.55	
	(a.k.a. Heater H-127)	NO _X	8.99	
		SO ₂	8.51	
		PM	2.50	
		PM ₁₀	2.50	
		PM _{2.5}	2.50	
		VOC (6)	1.27	
		Ethylene	1.21	
		NH₃	2.63	
		H ₂ SO ₄	0.52	
OC2H128	Cracking Furnace, F- 128	со	21.55	
	(a.k.a. Heater H-128)	NO _X	8.99	
		SO ₂	8.51	
		PM	2.50	
		PM ₁₀	2.50	
		PM _{2.5}	2.50	
		VOC (6)	1.27	
		Ethylene	1.21	
		NH₃	2.63	
		H ₂ SO ₄	0.52	
OC2MEH120- OC2MEH125	Cracking Furnaces F- 120 – F-125 (a.k.a. Heaters H-120 – H- 125) Maintenance,	NO _x	20.00	

		СО	291.13	
OC2MEH126-	Cracking Furnaces F-	NOx	20.00	
OC2MEH129	126 – F-129 (a.k.a. Heaters H-126 – H-	co	291.13	
0031131 0031139	129) MSS			
OC2H121 – OC2H128	Cracking Furnace (a.k.a. Heaters)	СО		261.35
	Source Group Cap	NOx	47.60	194.29
		SO ₂	40.00	10.19
		PM		73.26
		PM ₁₀		73.26
		PM _{2.5}		73.26
		VOC (6)		22.57
		Ethylene		0.73
		NH₃		79.72
		H ₂ SO ₄	3.52	0.62
OC2H120	Cracking Furnace, F- 120 (a.k.a. Heater H-120)	со	21.51	
		NO _X	8.97	
		SO ₂	8.50	
		РМ	2.50	
		PM ₁₀	2.50	
		PM _{2.5}	2.50	
		VOC (6)	1.26	
		Ethylene	1.20	
		NH ₃	2.62	
		H ₂ SO ₄	0.52	
OC2H129	Cracking Furnace, F-	со	21.55	
	(a.k.a. Heater H-129)	NO _X	8.99	
		SO ₂	8.51	
		РМ	2.50	
		PM ₁₀	2.50	

		PM _{2.5}	2.50	
		VOC (6)	1.27	
		Ethylene	1.21	
		NH ₃	2.63	
		H ₂ SO ₄	0.52	
OC2H120, OC2H129	Cracking Furnace	со		66.00
	(a.k.a. Heaters) Source Group Cap	NO _X		49.07
		SO ₂		2.57
		РМ		18.50
		PM ₁₀		18.50
		PM _{2.5}		18.50
		VOC (6)		5.70
		Ethylene		0.18
		NH ₃		20.13
		H ₂ SO ₄		0.16
OC2F596	Pressure-Assisted Flare (a.k.a. Multipoint Ground Flare), GF-596 (Routine)	со	13.14	
		NO _X	2.53	
		SO ₂	0.24	
		VOC (7)	3.14	
		Ethylene	0.93	
		Propylene	0.22	
OC2F596	Pressure-Assisted Flare (a.k.a. Multipoint Ground Flare), GF-596 (MSS)	СО	1756.39	
		NO _x	879.52	
		SO ₂	0.88	
		VOC (7)	1801.87	
		Ethylene	808.14	
		Propylene	93.18	
OC2F597	Low Pressure Flare, FS-597	СО	35.35	
		NOx	6.94	

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		SO ₂	1.03	
		VOC (7)	29.03	
		Ethylene	0.68	
		Propylene	0.17	
ОС2ТОХ	Thermal Oxidizer	со	1.10	
	(TOX) LHC-9	NO _X	0.67	
		SO ₂	0.16	
		РМ	0.48	
		PM ₁₀	0.48	
		PM _{2.5}	0.48	
		VOC (7)	1.54	
OC2F596, OC2F597, and OC2TOX	Flare / TOX Source Group Cap	со		248.50
and OCZTOX		NO _X		70.55
		SO ₂		0.17
		РМ		1.27
		PM ₁₀		1.27
		PM _{2.5}		1.27
		VOC (7)		58.21
		Ethylene		22.13
		Propylene		1.76
OC2CT936	Cooling Tower CT-936	VOC (7)	4.53	19.85
		Ethylene	2.52	7.35
		Propylene	2.56	6.81
		PM	2.03	5.32
		PM ₁₀	0.70	2.88
		PM _{2.5}	0.01	0.02
OC2FU2	Process Area	со	0.01	0.03
	Fugitives (5)	VOC (7)	4.59	20.11
		Ethylene	2.96	12.96

Emission Sources - Maximum Allowable Emission Rates

		Propylene	0.27	1.18
		Cl ₂	0.01	0.02
		HCI	0.38	1.66
		NH ₃	0.30	1.30
OC2GE1	Backup Diesel Generator No. 1	СО	0.55	0.03
		NO _X	2.88	0.14
		SO ₂	0.11	0.01
		PM	0.07	0.01
		PM ₁₀	0.07	0.01
		PM _{2.5}	0.07	0.01
		VOC	0.21	0.01
OC2GE2	Backup Diesel Generator No. 2	СО	0.55	0.03
	Generator No. 2	NO _X	2.88	0.14
		SO ₂	0.11	0.01
		PM	0.07	0.01
		PM ₁₀	0.07	0.01
		PM _{2.5}	0.07	0.01
		VOC	0.21	0.01
OC2ST921	15% HCL Storage Tank, V-921	HCI	0.01	0.01
OC2MEFP120	H-120 Fuel Purge	VOC	0.60	0.01
OC2MEFP121	H-121 Fuel Purge	VOC	0.60	0.01
OC2MEFP122	H-122 Fuel Purge	VOC	0.60	0.01
OC2MEFP123	H-123 Fuel Purge	VOC	0.60	0.01
OC2MEFP124	H-124 Fuel Purge	voc	0.60	0.01
OC2MEFP125	H-125 Fuel Purge	VOC	0.60	0.01
OC2MEFP126	H-126 Fuel Purge	voc	0.60	0.01
OC2MEFP127	H-127 Fuel Purge	VOC	0.60	0.01
OC2MEFP128	H-128 Fuel Purge	VOC	0.60	0.01
OC2MEFP129	H-129 Fuel Purge	VOC	0.60	0.01

OC2MEFU2	OC2MEFU2 Equipment Opening Fugitives (MSS)	со	0.03	0.01
	r ugiuves (Wiss)	VOC (7)	385.23	0.62
	MSS Activities (Attachment A)	Ethylene	170.91	0.16
		Propylene	123.00	0.15
		VOC (7)	0.74	0.10
		Ethylene	0.13	0.02
		Propylene	0.20	0.03

- (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
 - 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
 - $\begin{array}{lll} \text{CO} & \text{ carbon monoxide} \\ \text{Cl}_2 & \text{ Chlorine gas} \\ \text{HCl} & \text{ Hydrochloric Acid} \\ \text{NH}_3 & \text{ Ammonia} \end{array}$
 - H₂SO₄ Sulfuric Acid
- (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 emissions listed include ethylene.
- (7) VOC emissions listed include ethylene and propylene.

Date:	November 8, 2021
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