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	
Emission Font Not (2)	Course Hame (2)	7 iii Goritaininant Hamo (6)	lbs/hour	TPY (4)
OC2H121	Cracking Furnace, F-121 (a.k.a. Heater H-121)	со	21.51	
	(d.R.d. Fieder 11 121)	NO _X	8.97	
		SO ₂	8.50	
		PM	2.50	
		PM ₁₀	2.50	
		PM _{2.5}	2.50	
		VOC (6)	1.55	
		Ethylene	0.17	
		Propylene	0.17	
		NH₃	2.62	
		H ₂ SO ₄	0.52	
OC2H122	Cracking Furnace, F-122 (a.k.a. Heater H-122)	со	21.51	
	(d.K.d. Fieder FF 122)	NOx	8.97	
		SO ₂		
		РМ	2.50	
		PM ₁₀	2.50	
		PM _{2.5}	2.50	
		VOC (6)	1.55	
		Ethylene	1.31	
		Propylene	0.17	
		NH ₃	2.62	
		H ₂ SO ₄	0.52	

				1
OC2H123	Cracking Furnace, F-123 (a.k.a. Heater H-123)	СО	21.51 -	
		NO _x	8.97	
		SO ₂	8.50	
		PM 2.50	2.50	
		PM ₁₀	2.50	
		PM _{2.5}	2.50	
		VOC (6)	1.55	
		Ethylene	1.31	
		Propylene	0.17	
		NH₃	2.62	
		H ₂ SO ₄	0.52	
OC2H124	Cracking Furnace, F-124 (a.k.a. Heater H-124)	СО	21.51	
	(d.i.d. Floatof FF 22-4)	NO _X	O _X 8.97	
		SO ₂	8.50	
		РМ	2.50	
		PM ₁₀ 2.50	2.50	
		PM _{2.5}	2.50	
		VOC (6)	1.55	
		Ethylene	1.31	
		Propylene	0.17	
		NH₃	2.62	
		H ₂ SO ₄	0.52	

		I	1	1
C2H125	Cracking Furnace, F-125 (a.k.a. Heater H-125)	СО	21.51	
		NO _X	8.97	
		SO ₂	8.50	
		РМ	2.50	
			2.50	
			2.50	
		VOC (6)	1.55	
		Ethylene	1.31	
		Propylene	0.17	
		NH₃	2.62	
		H ₂ SO ₄	0.52	
OC2H126	Cracking Furnace, F-126 (a.k.a. Heater H-126)	СО	21.55	
	(d.i.d. Floatof FF 120)	NO _X	8.99	
		SO ₂	8.51	
		PM	2.50	
		PM ₁₀	2.50	
		PM _{2.5}	2.50	
		VOC (6)	1.55	
		Ethylene	1.31	
		Propylene	0.17	
		NH₃	2.63	
		H ₂ SO ₄	0.52	

OC2H127	Cracking Furnace, F-127	со	21.55	
	(a.k.a. Heater H-127)	NO _x	8.99	
		SO ₂	8.51	
		РМ	2.50	
		PM ₁₀	2.50	
		PM _{2.5}	2.50	
		VOC (6) 1	1.55	
		Ethylene	1.31	
		Propylene	0.17	
		NH ₃	2.63	
		H ₂ SO ₄	0.52	
OC2H128	Cracking Furnace, F-128 (a.k.a. Heater H-128)	со	21.55	
		NO _X	8.99	
		SO ₂	8.51	
		РМ	2.50	
		PM ₁₀	2.50	
		PM _{2.5}	2.50	
		VOC (6)	1.55	
		Ethylene	1.31	
		Propylene	0.17	
		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)	NO _x	20.00	
	Maintenance, Start-ups and Shutdowns (MSS)	СО	291.13	
OC2MEH126- OC2MEH129	Cracking Furnaces F-126 – F-129 (a.k.a. Heaters H-		20.00	
	126 – H-129) MSS	со	291.13	
OC2H121 – OC2H128	Cracking Furnace (a.k.a.	СО		261.35

	Сар	NOx	47.60	194.29
		SO ₂	40.00	10.19
		РМ		73.26
		PM ₁₀		73.26
		PM _{2.5}		73.26
		VOC (6)		24.27
		Ethylene		1.40
		Propylene		0.55
		NH ₃		79.72
		H ₂ SO ₄	3.52	0.62
OC2H120	Cracking Furnace, F-120 (a.k.a. Heater H-120)	со	21.51	
	(a.k.a. Heater H-120)	NOx	8.97	
		SO ₂	8.50	
		РМ	2.50	
		PM ₁₀	2.50	
		PM _{2.5}	2.50	
		VOC (6)	1.55	
		Ethylene	1.31	
		Propylene	0.17	
		NH ₃	2.62	
		H ₂ SO ₄	0.52	

OC2H129	Cracking Furnace, F-129 (a.k.a. Heater H-129)	СО	21.55	
	(a.k.a. Heater 11-129)	NO _X	8.99	
		SO ₂	8.51	
		PM	2.50	
		PM ₁₀	2.50	
		PM _{2.5}	2.50	
		VOC (6)	1.55	
		Ethylene	1.31	
		Propylene	0.17	
		NH ₃	2.63	
		H ₂ SO ₄	0.52	
OC2H120, OC2H129	Cracking Furnace (a.k.a. Heaters) Source Group	со		66.00
	Cap	NO _X		49.07
		SO ₂		2.57
		PM		18.50
		PM ₁₀		18.50
		PM _{2.5}		18.50
		VOC (6)		6.12
		Ethylene		0.35
		Propylene		0.14
		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	
		NOx	2.53	
		SO ₂	0.24	
		VOC (6)	3.14	
		Ethylene	0.93	
		Propylene	0.22	
OC2F596	Pressure-Assisted Flare (a.k.a. Multipoint Ground	СО	2471.53	

		NO _X	879.52	
		SO ₂	0.88	
		VOC (6)	1801.87	
		Ethylene	808.14	
		Propylene	93.18	
OC2F597	Low Pressure Flare, FS-	СО	35.35	
	597	NOx	6.94	
		SO ₂	1.03	
		VOC (6)	29.03	
		Ethylene	0.68	
		Propylene	0.17	
OC2TOX	Thermal Oxidizer (TOX)	со	1.10	
	LHC-9	NO _X	0.67	
		SO ₂	0.16	
		PM	0.48	
		PM ₁₀	0.48	
		PM _{2.5}	0.48	
		VOC (6)	1.54	
OC2F596, OC2F597,	Flare / TOX Source	СО		248.50
and OC2TOX	Group Cap	NOx		70.55
		SO ₂		0.17
		PM		1.27
		PM ₁₀		1.27
		PM _{2.5}		1.27
		VOC (6)		58.21
		VOC (6) Ethylene		58.21 22.13
OC2CT936	Cooling Tower CT-936	Ethylene		22.13

Emission Sources - Maximum Allowable Emission Rates

1	1		T	1
		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 Fugitives (5)	со	0.01	0.03
	(3)	VOC (6)	4.60	20.15
		Ethylene	2.96	12.96
		Propylene	0.28	1.22
		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. I	NO _X	2.88	0.14
		SO ₂	0.11	0.01
		РМ	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
	NO. Z	NO _X	2.88	0.14
		SO ₂	0.11	0.01
		РМ	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	Equipment Opening Fugitives (MSS)	со	0.03	0.01
r ugitives (MOS)	VOC (6)	385.23	0.62	
		Ethylene	170.91	0.16
		Propylene	123.00	0.15
	MSS Activities (Attachment A)	VOC (6)	0.74	0.10
	(macimon A)	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) 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 gas
HCl - Hydrochloric Acid
NH₃ - Ammonia

NH₃ - Ammonia 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 and propylene.