

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 9481

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)
116CT	Cooling Tower	VOC	0.74	3.20
116F	Refrigeration Fugitives (5)	VOC	6.58	28.79
230F	840 Unit Process Fugitives (5)	VOC	13.65	58.82
		PM/PM ₁₀	0.03	0.11
		HF	0.01	0.02
		Nickel Octoate	0.01	0.01
		Modifier AT@	0.02	0.10
230T-F105A	Oil Tank	VOC	1.08	0.94
230T-F105B	Oil Tank	VOC	1.08	0.94
230T-F200	Catalyst Tank	VOC	24.31	0.30
230T-F201	Catalyst Tank	VOC	14.96	0.39
230T-F205	Catalyst Tank	VOC	14.95	0.22
230T-F222	Catalyst Tank	VOC	2.87	0.08
230WF	840 Unit Wastewater Fugitives (5)	VOC	4.71	1.52
236F	840 Unit Finishing Process	VOC	154.45	270.39
4H-228	Modifier AT@ Makeup Tank	VOC	3.66	0.05
230T-F311	Nitrax Makeup Tank	PM/PM ₁₀	0.01	0.01
230T-F408	Tamol Makeup Tank	PM/PM ₁₀	1.20	0.01
230T-F411	Phosphoric Acid Storage Tank	PM/PM ₁₀	3.80	0.04

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280F	880 Unit Process Fugitives (5)	VOC	11.77	51.56
280FLQ504	040 Flare	VOC	36.06	18.93
		NO _x	2.59	1.26
		CO	14.00	7.48
		SO ₂	0.01	0.01
280T-115	Angelax Storage Tank	VOC	0.14	0.01
280T-F201	Catalyst Tank	VOC	18.17	0.54
280T-F206	Catalyst Tank	VOC	3.93	0.62
280T-F216	Catalyst Tank	VOC	8.31	0.77
280T-F507	Catalyst Tank	PM/PM ₁₀	0.01	0.01
280V-M202	HF Scrubber	VOC	0.67	0.01
		HF	0.02	0.02
280WF	880 Unit Wastewater Fugitives (5)	VOC	20.88	39.59
286F	880 Unit Finishing Process	VOC	188.10	550.00
850FL-Q504	850 Unit SPP Flare (6)	CO	14.73	14.31
		NO _x	2.89	2.81
		VOC	39.41	23.47
		SO ₂	0.01	0.01
850FL-Q504	850 Unit SPP Flare (7)	CO	21.35	3.07
		NO _x	2.96	0.43
		VOC	53.99	7.77
850TO-Q600	Regenerative Thermal Oxidizer	CO	0.50	2.19
		NO _x	0.90	3.94
		PM/PM ₁₀	0.02	0.09

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		SO ₂	0.01	0.02
		VOC	1.97	3.30
850T-F140	Gerstine Oil Tank	VOC	0.11	0.02
850T-F406	Dillic Makeup Tank	VOC	0.10	0.10
850T-F409	Recycle Water Tank	VOC	0.05	0.20
850T-F364	Angelax Tank	MDPD	0.03	0.01
		VOC	0.13	0.01
850T-F225	Tributic Vent	VOC	9.23	3.38
850T-F207	Showic Vent	VOC	46.79	1.83
856F	850 Unit Finishing Building Fugitives	VOC	161.27	261.50
850F	850 Unit Process Piping Fugitives (5)	HF	0.07	0.30
		SiCl ₄	0.01	0.01
		SnCl ₄	0.21	0.92
		VOC	5.79	25.36
832CT	850 Unit Cooling Tower	VOC	1.26	5.52
850WF	850 Unit Wastewater Fugitives	HF	0.01	0.01
		VOC	3.21	4.54
130FL-Q502	Utilities Flare (8)	CO	2.56	0.14
		NO _x	0.35	0.02
		VOC	7.42	0.42
5A-202	Lime Neutralization Sump	SiCl ₄	0.02	0.01
		SnCl ₄	0.04	0.01
		VOC	3.11	0.18
850FUGSA	Bag Dump	PM/PM ₁₀	0.59	0.01

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- (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
- HF - hydrogen fluoride
- MDPD - mixed diaryl p phenylene diamine
- SiCl₄ - silicon tetrachloride
- SnCl₄ - tin tetrachloride
- (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) Total allowable emissions, excluding start-up emissions.
- (7) Total allowable start-up emissions.
- (8) These emissions are for the Specialty Polymer Plant's (850 Unit) contribution to this flare which is permitted under Permit Number 22110.

Date: _____