

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 5264

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. 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 *	
			lb/hr	TPY
HDPE Plant No. 1				
A425	DHR Dust Collector	PM ₁₀	0.13	0.56
B1EXT1	Two Vents from Extruder	PM ₁₀	<0.01	<0.01
		VOC 0.05	0.21	
B1EXT2	One Vent from Extruder	PM ₁₀	<0.01	<0.01
		VOC <0.01	<0.01	
BN1008	Bay 1 Pellet Surge Hopper (5)	PM ₁₀	<0.01	<0.01
D416VEN	Filter Vent (5)	PM ₁₀	<0.01	<0.01
DIESELTK	Storage Tank	VOC	0.01	<0.01
DR1026	Pellet Dryer Vent	PM ₁₀	<0.01	<0.01
		VOC 0.75	3.24	
E352.1RVEN	Pellet Storage Silos (5)	PM ₁₀	<0.01	<0.01
E352.2RVEN	Pellet Storage Silos (5)	PM ₁₀	<0.01	<0.01
E352.3RVEN	Pellet Storage Silos (5)	PM ₁₀	<0.01	<0.01
E354.1VEN	Loadout Vent (5)	PM ₁₀	<0.01	<0.01
E354.2VEN	Loadout Vent (5)	PM ₁₀	<0.01	<0.01
E378VEN	Blender Vent (5)	PM ₁₀	<0.01	<0.01

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			<u>lb/hr</u>	<u>TPY</u>
F213VEN	CAS Vent for Tanks F210, F220, and F230	VOC	1.35	0.07
F277VEN	Tank F270 Vent	HCl	0.11	<0.01
FL1037	Additive Feeder Purge Filter	PM ₁₀	0.15	0.66
FL1038A	Additive Feeder Purge Filter	PM ₁₀	<0.01	0.01
FL1038B	Additive Feeder Purge Filter	PM ₁₀	<0.01	0.01
FL1038C	Additive Feeder Purge Filter	PM ₁₀	<0.01	0.01
FL1039	Additive Feeder Purge Filter	PM ₁₀	<0.01	0.01
GASTK	Storage Tank	VOC	2.19	1.47
GQ352VEN	Main Flare	VOC	9.10	39.86
		NO _x	1.02	4.47
		CO	5.20	22.78
GT335	Cooling Tower	VOC	0.55	2.40
HDPE SUMP	Sump	VOC	0.03	0.12
CATOX	Catalytic Oxidizer	PM ₁₀	0.42	1.71
		VOC	1.29	5.28
		NO _x	3.49	14.29
		SO ₂	0.02	0.09
		CO	0.73	3.00
POLYFUG	Fugitives (4)	VOC	2.88	12.64

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
HDPE Plant No. 2				
200, 202, 203, 204, 205, 206, 207, 208	Product Degassing Emissions	VOC	4.20	15.00
201	Flash Tank Screen Cleanout	VOC	14.57	0.87
202, 203, 204, 205, 206	Pellet Blending and Storage Silos 1.84		PM ₁₀	0.65
207	Pellet Loadout Filter	PM ₁₀	0.73	3.19
208	Extruder Feed Dust Collector	PM ₁₀	0.09	0.39
209	Bay 2 Flare	VOC	11.68	33.32
		NO _x	2.33	5.13
		CO	4.66	10.24
210	Boiler No. 1	PM ₁₀	0.54	2.38
		VOC	0.56	1.31
		NO _x	2.33	10.75
		SO ₂	0.02	0.10
		CO	2.37	10.37
211	Boiler No. 2	PM ₁₀	0.54	2.38
		VOC	0.56	1.31
		NO _x	2.33	10.75
		SO ₂	0.02	0.10
		CO	2.37	10.37
212	Bay 2 Cooling Tower	VOC	0.44	1.92
213	Catalyst Loading Fugitives (6)	PM ₁₀	0.004	0.007

214	Process Fugitives (4)	VOC	2.54	11.13
215	Catalyst Activator HEPA Filter (6)	PM ₁₀	0.003	0.01
		VOC	1.73	0.48
		CO	27.60	0.63
216	Catalyst Activator Furnace	PM ₁₀	0.09	0.39
		VOC	0.02	0.08
		NO _x	0.39	1.71
		SO ₂	<0.01	0.02
		CO	0.40	1.74
217	Liquid Additive Tank	VOC	0.06	<0.01
218	Additive Dump Hopper Filter	PM ₁₀	0.15	0.66
219	Diesel Tank A	VOC	0.66	<0.01
220	Diesel Tank B	VOC	0.66	<0.01
221	Additive Scale House Filter	PM ₁₀	0.09	0.05
222	Waste Catalyst HEPA Filter (6)	PM ₁₀	0.027	0.002
223	Quench Tower (6)	PM ₁₀	0.001	0.004
224	Extruder Vent Carbon Bed	VOC	<0.01	<0.01
225	Bay 2 Pellet Surge Hopper	PM ₁₀	<0.01	<0.01

(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.

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- (3) PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
HCl - hydrogen chloride
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Product degassing VOC emissions for the following emission point numbers (EPNs) are included in EPN DR1026: BN1008, D416VEN, DR1026, E352.1RVEN, E352.2RVEN, E352.3RVEN, E354.1VEN, E354.2VEN, and E378VEN.
- (6) Chromium emissions shall not exceed 5 weight percent of the PM₁₀.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

_____ Hrs/day _____ Days/week _____ Weeks/year or 8,760 Hrs/year

Dated _____