

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 4831

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)	<u>Emission Rates *</u>	
			lb/hr	TPY
476	Catalyst Diluent Unloading	VOC	<0.01	<0.01
477	Comonomer Unloading	VOC	<0.01	0.20
478	CO ₂ Removal Bed	PM ₁₀	<0.01	0.03
479 A and B, 480-489, 491-494 (6)	Catalyst Preparation System	PM ₁₀ VOC	<0.01 0.87	0.01 3.80
495, 496 (6)	Seal System Fugitives	VOC	0.40	1.75
497 A and B (6)	Reactors	PM ₁₀	0.01	0.05
498 and 499 (6)	Purger-Separator Start-up	VOC	<0.01	0.03
511	Analyzer Vents	VOC	0.4	1.8
512	Additive System	PM ₁₀	<0.01	<0.02
516-521 (6)	Storage Bins	PM ₁₀	0.68	1.43
522-526 (6)	Pelletization System	PM ₁₀	1.00	2.07
527, 528 (6)	Pellet Blending	PM ₁₀	0.67	2.93
529, 530 (6)	Loading Bin	PM ₁₀	0.70	1.47

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531, 532 (6)	Antioxidant Receiver	PM ₁₀	0.02	<0.01
533	Pellet Receiver Baghouse	PM ₁₀	7.67	6.90
541-548 (6)	Feed Bins at Extruders	VOC	5.33	4.95
	1 and 2	PM ₁₀	1.0	1.2

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
549 - 551, 559 (6)	Feed Bin at Extruder 3	VOC	5.32	11.2
		PM ₁₀	1.0	2.7
502, 504-506 (6)	Granular Weigh Bins	VOC	4.75	2.23
		PM ₁₀	1.0	0.6
402	Feed Bin at Extruder 4	VOC	8.9	21.0
		PM ₁₀	1.0	2.2
403, 404, 405 (6)	Tanks, Additive Melting and Holding	VOC	<0.001	<0.01
		PM ₁₀	<0.001	<0.01
406-411, 414 (6)	Tanks, Additive Blending and Holding	PM ₁₀	0.022	<0.01
412	Additive Dump Station	PM ₁₀	0.09	0.01
413	Additive Vacuum Receiver	PM ₁₀	0.023	<0.01
415	Additive Vacuum Receivers	PM ₁₀	0.014	<0.01
416	Resin Screw Conveyor	PM ₁₀	0.01	0.09
417	Tank, Liquid Additive Holding	VOC	<0.001	<0.01
500	RXTR 1 Gas Barrier Vent	PM ₁₀	0.03	0.15
501	RXTR 2 Gas Barrier Vent	PM ₁₀	0.03	0.15

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F-1	Process Flare	CO	75.3	52.9
		NO _x	148.0	10.4
		VOC	122.6	98.4
600	Boiler B-95159	CO	0.80	1.71
		NO _x	5.66	12.05
		PM ₁₀	0.47	1.00
		SO ₂	0.03	0.06
		VOC	0.14	0.30

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
601	Boiler B-95259 (5)	CO	0.80	1.71
		NO _x	5.66	12.05
		PM ₁₀	0.47	1.00
		SO ₂	0.03	0.06
		VOC	0.14	0.30
510	Process Fugitives (4)	VOC	24.9	109.1
602	Cooling Tower (4)	VOC	1.33	5.83

- (1) Emission point identification - either specific equipment designation or emission point number (EPN) 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 General Rule 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
PM₁₀ - particulate matter less than 10 microns
CO - carbon monoxide
CO₂ - carbon dioxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Boiler standby operation for EPN 600.

(6) The listed emission rate is for the group of emission points, so the sum of emissions from all of the emission points in the group shall not exceed the emission rate listed for the group.

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

Hrs/day____Days/week____Weeks/year____or Hrs/year 8,760

Dated_____