Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 6141A and PSDTX118M4

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)
246	Large Flare	NOx	24.11	3.67
		CO	122.85	18.70
		VOC	215.40	37.13
		Al_2O_3	2.28	0.10
246	Large Flare, Startup, Shutdown, and Maintenance	NOx	70.84	1.30
		CO	360.95	6.61
		VOC	792.88	14.59
479	No. 2 Silica Activator	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
480	No. 2 Silica Activator Blow Tank	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
481	Silica Bin 6	PM	0.01	-
		PM_{10}	0.01	-
		$PM_{2.5}$	0.01	-
482	Silica Bin 7	PM	0.01	-
		PM_{10}	0.01	-
		$PM_{2.5}$	0.01	-
481, 482	Annual Emissions Cap	PM	-	0.01
		PM_{10}	-	0.01

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		$PM_{2.5}$	-	0.01
483	G-3 Blender Blow Tank	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		VOC	0.57	0.14
484	Catalyst Bin 25	PM	0.01	-
		PM_{10}	0.01	-
		$PM_{2.5}$	0.01	-
		VOC	0.04	0.01
485	Catalyst Bin 26	PM	0.01	-
		PM_{10}	0.01	-
		$PM_{2.5}$	0.01	-
		VOC	0.04	0.01
486	Catalyst Bin 27	PM	0.01	-
		PM_{10}	0.01	-
		$PM_{2.5}$	0.01	-
487	Catalyst Bin 28	PM	0.01	-
		PM_{10}	0.01	-
		$PM_{2.5}$	0.01	-
484, 485, 486, 487	Annual Emissions Cap	PM	-	0.01
		PM_{10}	-	0.01
		$PM_{2.5}$	-	0.01
488	Middle Catalyst Blow Tank	PM	0.02	-
		PM_{10}	0.02	-
		$PM_{2.5}$	0.02	-
		VOC	0.59	0.15

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489	North Catalyst Blow Tank	PM	0.02	-
		PM_{10}	0.02	-
		$PM_{2.5}$	0.02	-
		VOC	2.78	0.52
490	South Catalyst Blow Tank	PM	0.02	-
		PM_{10}	0.02	-
		$PM_{2.5}$	0.02	-
		VOC	0.59	0.15
771	Catalyst Blow Tank	PM	0.02	-
		PM_{10}	0.02	-
		$PM_{2.5}$	0.02	-
		VOC	0.59	0.15
488, 489, 490, 771	Annual Emissions Cap	PM	-	0.02
		PM_{10}	-	0.02
		$PM_{2.5}$	-	0.02
491	G-1 North Catalyst Feeder	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		VOC	1.02	1.93
492	G-1 South Catalyst Feeder	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		VOC	1.02	1.93
493	G-2 North Catalyst Feeder	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

		VOC	0.82	1.78
494	G-2 South Catalyst Feeder	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		VOC	0.82	1.78
495	G-1 Seal Vent System	VOC	0.20	0.88
496	G-2 Seal System Vent	VOC	0.20	0.88
497	G-1 Seed Bed Vent	PM	4.38	0.25
		PM_{10}	4.38	0.25
		$PM_{2.5}$	4.38	0.25
Combined Allowables - Entry No. 1				
504, 505, 506, 591, 594, and 1052	Resin Bin 101, Resin Bin 102, Resin Bin 103, P-1 Feed Hopper, Pellet Dryer Vent, and No. 1 Make Baghouse	VOC	14.48	15.72
Combined Allowables - Entry No. 2				
507, 508, 509, 1053, 1053A	Resin Bin 201, Resin Bin 202, Resin Bin 203, No. 2 Make Baghouse, and G-2 Conveying System	VOC	12.14	10.16
502	No. 1 Trim Vent	PM	0.10	0.01
		PM_{10}	0.10	0.01
		$PM_{2.5}$	0.10	0.01
503	No. 2 Trim Vent	PM	0.10	0.04
		PM_{10}	0.10	0.04
		$PM_{2.5}$	0.10	0.04
504, 505, 506	Resin Bin No. 101, 102, and 103	PM	0.13	0.50
		PM_{10}	0.13	0.50
		$PM_{2.5}$	0.13	0.50

Emission Sources - Maximum Allowable Emission Rates

		VOC (6)	-	-
507, 508, 509	Resin Bin No. 201, 202, and 203	PM	0.10	0.41
		PM_{10}	0.10	0.41
		$PM_{2.5}$	0.10	0.41
		VOC (7)	-	-
510	No. 1 Transfer Conveyor Separator	PM	0.20	-
		PM_{10}	0.20	-
		$PM_{2.5}$	0.20	-
511	No. 2 Transfer Conveyor Separator	PM	0.20	-
		PM_{10}	0.20	-
		$PM_{2.5}$	0.20	-
768	Dedicated Transfer System	PM	0.20	-
		PM_{10}	0.20	-
		$PM_{2.5}$	0.20	-
510, 511, and 768	Annual Emissions Cap	PM	-	1.04
		PM_{10}	-	1.04
		$PM_{2.5}$	-	1.04
512	No. 1 Loading Conveyor Separator	PM	0.20	-
		PM_{10}	0.20	-
		$PM_{2.5}$	0.20	-
513	No. 2 Loading Conveyor Separator	PM	0.15	-
		PM_{10}	0.15	-
		$PM_{2.5}$	0.15	-
512 and 513	Annual Emissions Cap	PM	-	0.53
		PM_{10}	-	0.53
		$PM_{2.5}$	-	0.53

Emission Sources - Maximum Allowable Emission Rates

514	Loading Additive Transfer System	PM	0.14	0.02
		PM_{10}	0.14	0.02
		$PM_{2.5}$	0.14	0.02
516	No. 2 Loading Additive Hopper	PM	0.01	0.04
		PM_{10}	0.01	0.04
		$PM_{2.5}$	0.01	0.04
521	G-2 Seed Bed Vent	PM	4.38	0.25
		PM_{10}	4.38	0.25
		$PM_{2.5}$	4.38	0.25
522	Unit Fugitives Block 26 (5)	VOC	7.17	30.01
523	Analyzer Vents	VOC	0.20	0.88
524	Pelleted Master Batch Baghouse	PM	0.02	0.01
		PM_{10}	0.02	0.01
		$PM_{2.5}$	0.02	0.01
590	P-1 Trim Bin Filter	PM	0.08	0.05
		PM_{10}	0.08	0.05
		$PM_{2.5}$	0.08	0.05
591	P-1 Feed Hopper Filter	PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.05
		VOC (6)	-	-
592	P-1 Additive (Granular) Filter	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
592FF	P-1 Feeder Filter B	PM	0.13	0.05

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.13	0.05
		$PM_{2.5}$	0.13	0.05
593	P-1 Additive (Pelleted) Filter	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
593FF	P-1 Feeder Filter A	PM	0.13	0.05
		PM_{10}	0.13	0.05
		$PM_{2.5}$	0.13	0.05
594	P-1 Pellet Dryer Exhaust	PM	0.65	1.91
		PM_{10}	0.65	1.91
		$PM_{2.5}$	0.65	1.91
		VOC (6)	-	-
595	P-1 Elutriator Filter	PM	0.07	0.19
		PM_{10}	0.07	0.19
		$PM_{2.5}$	0.07	0.19
705	Small Flare	NOx	31.39	47.95
		CO	97.15	148.42
		VOC	44.79	37.19
		SO2	5.92	1.15
		AL2O3	2.28	2.08
761	Catalyst Bin 29	PM	0.02	0.01
		PM_{10}	0.02	0.01
		$PM_{2.5}$	0.02	0.01
		VOC	2.19	0.38
762	Catalyst Bin 30	PM	0.02	0.01
		PM_{10}	0.02	0.01

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.02	0.01
		VOC	2.19	0.38
765	Microtalc Filter	PM	0.12	0.02
		PM_{10}	0.12	0.02
		$PM_{2.5}$	0.12	0.02
765DFUG	Talc Unloading (5)	PM	1.67	0.05
		PM_{10}	1.67	0.05
		$PM_{2.5}$	1.67	0.05
766	Fugitives, Block 12 (5)	VOC	0.11	0.49
769	Fugitives, Block 17 (5)	VOC	0.19	0.85
1040	Additive Feeder	PM	0.01	0.02
		PM_{10}	0.01	0.02
		$PM_{2.5}$	0.01	0.02
1052	No. 1 Granular Make Baghouse	PM	0.13	0.05
		PM_{10}	0.13	0.05
		$PM_{2.5}$	0.13	0.05
		VOC (6)	-	-
1053	No. 2 Granular Make Baghouse	PM	0.10	0.39
		PM_{10}	0.10	0.39
		$PM_{2.5}$	0.10	0.39
		VOC (7)	-	-
1053A	G-2 Conveying System	PM	0.14	0.60
		PM_{10}	0.14	0.60
		$PM_{2.5}$	0.14	0.60
		VOC (7)	-	-
1054	P-1 Additive Conveyor	PM	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
1075D	Talc Feeder Vent Line	PM	0.04	0.17
		PM_{10}	0.04	0.17
		$PM_{2.5}$	0.04	0.17
1086	Wash Pot	VOC	5.87	0.85
1090	G-1 Purge Bin Analyzer	VOC	0.01	0.01
1148	Ethylene Heating System Fugitives (5)	VOC	0.99	4.32

(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
SO_2 - sulfur dioxide
Al_2O_3 - aluminum oxide
CO - carbon monoxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - 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
(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) See Combined Allowables- Entry No. 1.
(7) See Combined Allowables- Entry No. 2.

Date: October 5, 2023