

## 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. 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**
246	Large Flare	NO <sub>x</sub>	24.11	3.68
		CO (PSD)	122.87	18.71
		VOC (5)	215.40	37.14
		Al <sub>2</sub> O <sub>3</sub>	2.28	0.10
246	Large Flare	NO <sub>x</sub>	70.84	1.30
	Startup, Shutdown, and	CO	360.93	6.62
	Maintenance	VOC	792.88	14.59
479	No. 2 Silica Activator	Silica/Catalyst Dust	0.01	0.01
480	No. 2 Silica Activator Blow Tank	Silica/Catalyst Dust	0.01	0.01
481	Silica Bin 6	Silica Dust	0.01	-
482	Silica Bin 7	Silica Dust	0.01	-
481 482	<b>Annual Emissions</b>	Silica Dust	-	0.01
483	G-3 Blender Blow Tank	Catalyst Dust	0.01	0.01
		VOC	0.58	0.14
484	Catalyst Bin 25	Catalyst Dust	0.01	-
		VOC	0.04	0.01
485	Catalyst Bin 26	Catalyst Dust	0.01	-
		VOC	0.04	0.01

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486	Catalyst Bin 27	Catalyst Dust	0.01	-
487	Catalyst Bin 28	Catalyst Dust	0.01	-
484 485 486 487	<b>Annual Emissions</b>	Catalyst Dust	-	0.01
488	Middle Catalyst Blow Tank	Catalyst Dust VOC	0.02 0.59	- 0.15
489	North Catalyst Blow Tank	Catalyst Dust VOC	0.02 2.78	- 0.52
490	South Catalyst Blow Tank	Catalyst Dust VOC	0.02 0.59	- 0.15
771	Catalyst Blow Tank	Catalyst Dust VOC	0.02 0.59	- 0.15
488 489 490 771	<b>Annual Emissions</b>	Catalyst Dust	-	0.02
491	G-1 North Catalyst Feeder	Catalyst Dust VOC	0.01 0.82	0.01 1.78
492	G-1 South Catalyst Feeder	Catalyst Dust VOC	0.01 0.82	0.01 1.78
493	G-2 North Catalyst Feeder	Catalyst Dust VOC	0.01 0.82	0.01 1.78
494	G-2 South Catalyst Feeder	Catalyst Dust VOC	0.01 0.82	0.01 1.78
495	G-1 Seal Vent System	VOC	0.20	0.88

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496	G-2 Seal System Vent	VOC	0.20	0.88
497	G-1 Seal Bed Vent	Polyethylene Dust	4.38	0.07
500	G-1 Fluid Bed Cooler	Polyethylene VOC (6)	0.1 -	0.03 -
501	G-2 Fluid Bed Cooler	Polyethylene VOC (7)	0.10 -	0.39 -

**Combined Allowables - Entry No. 1**

500	G-1 Fluid Bed Cooler	VOC	14.48	15.72
504	Resin Bin 101			
505	Resin Bin 102			
506	Resin Bin 103			
591	P-1 Feed Hooper			
594	Pellet Dryer Vent			
1052	No. 1 Make Baghouse			

**Combined Allowables - Entry No. 2**

501	G-2 Fluid Bed Cooler	VOC	12.14	10.16
507	Resin Bin 201			
508	Resin Bin 202			
509	Resin Bin 203			
1053	No. 2 Make Baghouse			
502	No. 1 Trim Vent	Polyethylene	0.10	0.01
503	No. 2 Trim Vent	Polyethylene	0.10	0.04

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			lb/hr	TPY**
504	Resin Bin No. 101	Polyethylene VOC (6)	0.10	0.32
505	Resin Bin No. 102		-	-
506	Resin Bin No. 103			
507	Resin Bin No. 201	Polyethylene VOC (7)	0.10	0.41
508	Resin Bin No. 202		-	-
509	Resin Bin No. 203			
510	No. 1 Transfer Conveyor Separator	Polyethylene	0.15	-
511	No. 2 Transfer Conveyor Separator	Polyethylene	0.15	-
768	Dedicated Transfer System	Polyethylene	0.15	-
510 511 768	<b>Annual Emissions</b>	Polyethylene	-	0.73
512	No. 1 Loading Conveyor Separator	Polyethylene	0.15	-
513	No. 2 Loading Conveyor Separator	Polyethylene	0.15	-
512 513	<b>Annual Emissions</b>	Polyethylene	-	0.48
514	Loading Additive Transfer System	Additive Dust Talc	0.01 0.13	0.01 0.01
515	No. 1 Loading Additive Hopper	Additive/Talc Dust	0.01	-
516	No. 2 Loading Additive Hopper	Additive/Talc Dust	0.01	-

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515 516	<b>Annual Emissions</b>	Additive/Talc Dust	-	0.04
521	G-2 Seed Bed Vent	Polyethylene Dust	4.38	0.07
522	Unit Fugitives Block 26 (4)(5)	VOC	11.74	49.17
523	Analyzer Vents	VOC	0.21	0.89
524	Pelleted Master Batch Baghouse	Polyethylene/Additive	0.02	0.01
525	Granular Master Batch Baghouse	Polyethylene/Additive	0.04	0.01
590	P-1 Trim Bin Filter	Polyethylene	0.10	0.03
591	P-1 Feed Hopper Filter	Polyethylene/Additive VOC (6)	0.01 -	0.05 -
592	P-1 Additive (Granular) Filter	Additive Dust	0.01	0.01
592FF	P-1 Feeder Filter B	Additive Dust	0.13	0.05
593	P-1 Additive (Pelleted) Filter	Additive Dust	0.01	0.01
593FF	P-1 Feeder Filter A	Additive Dust	0.13	0.05
594	P-1 Pellet Dryer Exhaust	Polyethylene VOC (6)	0.50 -	1.2 -
595	P-1 Elutriator Filter	Polyethylene Dust	0.05	0.12

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
705	Small Flare	NO <sub>x</sub>	19.39	21.95
		CO	60.02	67.93
		VOC	50.64	51.11
		SO <sub>2</sub>	0.89	0.19
		AL <sub>2</sub> O <sub>3</sub>	2.28	2.08
761	Catalyst Bin 29	Catalyst	0.02	0.01
		VOC	2.19	0.39
762	Catalyst Bin 30	Catalyst	0.02	0.01
		VOC	2.19	0.39
765	Microtalc Filter	Talc Dust	0.12	0.02
765DFUG	Talc Unloading (4)	Talc Dust	1.67	0.05
766	Fugitives, Block 12 (4)	VOC	0.28	1.25
769	Fugitives, Block 17 (4)	VOC	0.33	1.45
1040	Additive Feeder	Additive/Talc Dust	0.01	0.02
1052	No. 1 Granular Make Baghouse	Polyethylene Dust	0.10	0.03
		VOC (6)	-	-
1053	No. 2 Granular Make Baghouse	Polyethylene Dust	0.10	0.39
		VOC (7)	-	-
1054	P-1 Additive Conveyor	Additive Dust	0.01	0.01
1075D	Talc Feeder Vent Line	Talc Dust	0.04	0.17
1086	Wash Pot	VOC	5.87	0.85

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1090	G-1 Purge Bin Analyzer	VOC	0.01	0.01
1148	Ethylene Heating System Fugitives (4)	VOC	0.99	4.32

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
Al<sub>2</sub>O<sub>3</sub> - aluminum oxide  
CO - carbon monoxide
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) 0.2 tons per year of VOC are authorized through Permit by Rule (PBR) 43990. The PBR has not been voided.
- (6) See Combined Allowables - Entry No. 1.
- (7) See Combined Allowables - Entry No. 2.

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

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

\*\* Compliance with annual emission limits is based on a rolling 12-month period.

Dated August 6, 2010