

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 19200 and PSD-TX-760M7

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>	
			<u>lb/hr</u>	<u>TPY**</u>
1018/1067	Olefins I and II Flares Elevated Flares (13)	CO		62.68
		NO _x		12.30
		SO ₂	0.10	
		VOC	21.62	
1018	Olefins I Elevated Flare (13)	CO	14.31	
		NO _x	2.81	
		SO ₂	0.02	
		VOC	10.39	
1067	Olefins II Elevated Flare (13)	CO	14.31	
		NO _x	2.81	
		SO ₂	0.02	
		VOC	10.39	
1018/1067	Olefins I and II Flares Elevated Flares (14)	CO		2.74
		NO _x		0.38
		VOC		3.87
1018	Olefins I Elevated Flare (14)	CO	48.04	
		NO _x	6.65	
		VOC	68.40	
1067	Olefins II Elevated Flare (14)	CO	48.04	
		NO _x	6.65	
		VOC	68.40	
B-231	Co-Catalyst Area Dip Pot	VOC	0.03	0.01
B-242	Co-Catalyst Area Dip Pot	VOC	0.03	0.01

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			lb/hr	TPY**
B-292A	Peroxide Dip Pot	VOC	0.05	0.01
B-292B	Peroxide Dip Pot	VOC	0.05	0.01
B-360	Pellet Buffer Vessel	PM	0.01	0.06
B-406	Catalyst Slurry Prep System Dip Pot	VOC	0.05	0.01
B-460	Pellet Buffer Vessel	PM	0.01	0.06
B-560	Pellet Buffer Vessel	PM	0.01	0.06
B-760	Pellet Buffer Vessel	PM	0.01	0.06
D-407	Peroxide Drum	VOC	0.01	0.01
F-343	Powder Vent Gas Filter	PM	0.04	0.07
		VOC	0.01	
F-346	Additive Feed Conveying Gas Filter	PM	0.02	0.01
		VOC	0.01	0.01
F-367	Pellet Water Preseparator Sieve	PM	0.03	0.14
F-368	Classifier	PM	0.03	0.14
F-387	Silo Air Filters Train No. 1	PM	0.57	2.40
F-387A	Silos Cyclone Separator, Train No. 1	PM	0.47	1.26

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			lb/hr	TPY**
F-400	Vacuum Cleaner Bag Filter	PM	0.03	0.11
F-402	Masterbatch Vent Bag Filter	PM	0.02	0.09
		VOC	0.06	
F-403	Off Pellet Vent Bag Filter	PM	0.49	1.95
F-443	Powder Vent Gas Filter	PM	0.04	0.07
		VOC	0.01	0.01
F-446	Additive Feed Conveying Gas Filter	PM	0.02	0.01
		VOC	0.01	0.01
F-467	Pellet Water Preseparator Sieve	PM	0.03	0.14
F-468	Classifier	PM	0.03	0.14
F-487	Silo Air Filters Train No. 2	PM	0.57	2.40
F-487A	Silos Cyclone Separator, Train No. 2	PM	0.47	1.26
F-541	500 Line-Off Spec Silo Bag Filter	PM	0.20	0.85
F-543	Powder Vent Gas Filter	PM	0.04	0.07
		VOC	0.01	0.01
F-546	Additive Feed Conveying Gas Filter	PM	0.02	0.01
		VOC	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
F-567	Pellet Water Preseparator Sieve	PM	0.03	0.14
F-568	Classifier	PM	0.03	0.14
F-575	300/400 Line - Off Spec Silo Bag Filter	PM	0.58	2.25
F-587	Silo Air Filters Train No. 3	PM	0.57	2.40
F-587A	Silos Cyclone Separator, Train No. 3	PM	0.47	1.26
F-705	Auto Packer Cyclone	PM	0.14	0.59
F-706A	Truck Silo Cyclone	PM	0.14	0.59
F-706B	Auto Packer Cyclone	PM	0.14	0.59
F-711A	Hopper Silo Cyclone Train No. 1	PM	0.14	0.59
F-711B	Hopper Silo Cyclone Train No. 2	PM	0.14	0.59
F-711G	Streamer Remover Bag Filter, Train No. 4	PM	0.40	1.59
F-741	700 Line Off Spec Silo Bag Filter	PM	0.12	0.47
F-743	Additive Vent Gas Filter	PM	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
F-743A	Powder Vent Bag Filter	PM	0.01	0.01
		VOC 0.01	0.01	
F-746	Additive Feed Conveying Gas Filter	PM	0.02	0.01
		VOC	0.01	0.01
F-747A	Bag Dumping Unit	PM	0.01	0.01
F-747B	Bag Dumping Unit	PM	0.01	0.01
F-747C	Bag Dumping Unit	PM	0.01	0.01
F-767	Pellet Water Preseparator Sieve	PM	0.03	0.14
F-768	Classifier	PM	0.03	0.14
F-781A	Product Silo Cyclone Train No. 1	PM	0.38	1.65
F-781B	Product Silo Cyclone Train No. 2	PM	0.38	1.65
F-781C	Product Silo Cyclone Train No. 3	PM	0.38	1.65
F-787	Silo Air Filters Train No. 4	PM	0.48	1.87
F-787A	Silos Cyclone Separator, Train No. 4	PM	0.47	1.26
F-975	C Train Loading Station Cyclone Separator	PM	0.30	0.61
F-981	Product Silo Air	PM	1.01	3.98

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
	Cyclone Train No. 4			
H-371	Pellet Metering Rotary Feeder	PM	0.01	0.01
H-471	Pellet Metering Rotary Feeder	PM	0.01	0.01
H-571	Pellet Metering Rotary Feeder	PM	0.01	0.01
H-769	Pellet Rotafeeder	PM	0.01	0.01
H-773	Pellet Rotafeeder	PM	0.01	0.01
F-987	Railcar Vacuum Cleaning System	PM	0.02	0.07
PO-CT	Cooling Tower (5)	VOC	0.88	3.86
PP1-300	Downstream Pellet Handling PP-1, Train No. 1 (7)	VOC	2.75	3.03
PP1-400	Downstream Pellet Handling PP-1, Train No. 2 (8)	VOC	2.88	3.14
PP1-500	Downstream Pellet Handling PP-1, Train No. 3 (9)	VOC	2.39	3.16
PP1-700	Downstream Pellet Handling PP-1, Train No. 4 (10)	VOC	1.06	2.96
PP1-CT	Cooling Tower	VOC	0.44	1.93
PP1-FUG	Fugitives PP-1 Unit (4)	PM	0.05	0.27
		VOC	3.72	16.28
PP2-CT	Cooling Tower (6)	VOC	1.32	5.77

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
PP2-FUG	Fugitives, PP-2 Unit (4)	VOC	6.70	29.23
PP2-T1	Downstream Pellet Handling PP-2, Train No. 1 (11)	VOC	6.37	5.60
PP2-T2	Downstream Pellet Handling PP-2, Train No. 2 (12)	VOC	6.37	5.60
T-367	Dryer Train No. 1	PM	0.34	1.25
T-467	Dryer Train No. 2	PM	0.41	1.76
T-567	Dryer Train No. 3	PM	0.34	1.25
T-767	Dryer Train No. 4	PM	0.41	1.76
1F-404	Additive Hopper Vent Bag Filter	PM	0.02	0.02
1F-405	Vent Bag Filter, Train No. 1	PM	0.12	0.48
		VOC	0.74	3.23
1F-406B	Vent Hopper Sock	PM	0.01	0.04
1F-501	Blending Silos Bag Filter, Train No. 1	PM	0.49	1.95
1F-982	Elutriator Bag Filter, Train No. 1	PM	0.98	3.89
1F-985	Railcar Bag Filter Train No. 1	PM	0.49	1.95

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
1S-404	Dryer Train No. 1	PM	0.51	1.99
1S-405	Classifier	PM	0.04	0.18
2F-405	Vent Bag Filter, Train No. 2	PM	0.12	0.48
		VOC	0.74	3.23
2F-406B	Vent Hopper Sock	PM	0.01	0.04
2F-501	Blending Silos Bag Filter, Train No. 2	PM	0.49	1.95
2F-982	Elutriator Bag Filter, Train No. 2	PM	0.98	3.89
2F-985	Railcar Bag Filter Train No. 2	PM	0.49	1.95
2S-404	Dryer Train No. 2	PM	0.51	1.99
2S-405	Classifier	PM	0.04	0.18

(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) CO - carbon monoxide

NO_x - nitrogen oxides

PM - particulate matter, suspended in the atmosphere, including PM₁₀

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 in emitted.

SO₂ - sulfur dioxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1 (30 TAC § 101.1

- (4) Fugitive emission rates are an estimate only and should not be considered as a maximum allowable emission rate.

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- (5) Emissions contributed from the polypropylene plant.
- (6) Emissions contributed from the polypropylene plant 2(PP2).
- (7) Total VOC emissions from the following emissions points:
B-360, F-367, F-368, F-387, F-387A, F-575, F-705, F-706A, F-706B, F-781A, F-711A, F-711G, F-711B, F-975, and T-367.
- (8) Total VOC emissions from the following emissions points:
B-460, F-467, F-468, F-487, F-487A, F-575, F-705, F-706A, F-706B, F-711A, F-711B, F-711G, F-781B, F-975, and T-467.
- (9) Total VOC emissions from the following emissions points:
B-560, F-541, F-567, F-568, F-587A, F-705, F-706A, F-706B, F-711A, F-711B, F-711G, F-587, F-781C, F-975, and T-567.
- (10) Total VOC emissions from the following emissions points:
B-760, F-705, F-706A, F-706B, F-711A, F-711B, F-711G, F-741, F-767, F-768, F-787, F-787A, F-975, F-981, and T-767.
- (11) Total VOC emissions from the following emissions points:
F-403, 1F-406B, 1F-501, 1F-982, 1F-985, 1S-404, and 1S-405.
- (12) Total VOC emissions from the following emissions points:
F-403, 2F-406B, 2F-501, 2F-982, 2F-985, 2S-404, and 2S-405.
- (13) The emissions contributed only from this permitted facility which is the PP I unit and the PP II unit. The vents from the PP I unit and the PP II unit to the Olefins I Elevated Flare (EPN 1018) and the Olefins II Elevated Flare (EPN 1067) are limited to the following scenarios:
- A. All vents from the PP I unit and the PP II unit can vent to EPN 1018 with no vents from the PP I and the PP II unit venting at the same time to EPN 1067.
- B. All vents from the PP I unit and the PP II unit can vent to EPN 1067 with no vents from the PP I unit and PP II unit venting at the same time to EPN 1018.
- C. All vents from the PP I unit to EPN 1018 and at the same time with all vents from the PP II unit to EPN 1067.

D. All vents from the PP I unit to EPN 1067 and at the same time with all vents from the PP II unit to EPN 1018.

(14) The emissions associated with product grade transitions contributed only from this permitted facility, which is the PP I unit and the PP II unit, to the Olefins I Elevated Flare (EPN 1018) and the Olefins II Elevated Flare (EPN 1067) are limited to the following scenarios:

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A. Product grade transition emissions from the PP I unit and the PP II unit can vent to EPN 1018 with no emissions from the PP I and the PP II unit venting at the same time to EPN 1067.

B. Product grade transition emissions from the PP I unit and the PP II unit can vent to EPN 1067 with no emissions from the PP I unit and PP II unit venting at the same time to EPN 1018.

C. Product grade transition emissions from the PP I unit to EPN 1018 and at the same time with all product grade transition emissions from the PP II unit to EPN 1067.

D. Product grade transition emissions from the PP I unit to EPN 1067 and at the same time with all product grade transition emissions from the PP II unit to EPN 1018.

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

Hrs/day 24 Days/week 7 Weeks/year 52

** Annual emissions are based on a rolling 12- month basis.

Dated August 25, 2006