

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 19201 and PSD-TX-760M4

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
PE-FUG	Plant Fugitives (4)	VOC PM	2.76 0.06	12.10 0.27
2-HDPE	Downstream Pellet Handling	VOC	4.96	21.73
3-HDPE	Downstream Pellet Handling	VOC	3.41	13.61
3T501	3T-501 Hexane Tank	VOC	0.29	0.72
3T502	3T-502 Hexane Tank	VOC	0.35	0.72
3T503	3T-503 Hexane Tank	VOC	0.35	0.72
5T6010	Tank T-501	VOC	0.89	0.76
5T6020	Tank T-502	VOC	0.50	0.76
5T6030	Tank 2T-502	VOC	0.50	0.76
5T6040	Tank T-503	VOC	0.49	0.76
5T6050	Tank 2T-503	VOC	0.49	0.76
F-302	Powder Silo Bag Filter	PM	0.10	0.42
2F-302	Powder Silo Bag Filter	PM	0.10	0.42

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
3F-302	Powder Silo Bag Filter	PM	0.16	0.62
F401	Powder Feed Hopper Bag Filter 0.01	PM	<0.01	
2F401	Powder Feed Hopper Bag Filter 0.01	PM	<0.01	
3F401	Powder Feed Hopper Bag Filter 0.01	PM	<0.01	
F408	Powder Feed Hopper Bag Filter 0.01	PM	<0.01	
2F408	Powder Feed Hopper Bag Filter 0.01	PM	<0.01	
3F408	Powder Feed Hopper Bag Filter 0.01	PM	<0.01	
3F708A	Elutriate Bag Filter	PM	1.34	4.35
F-701	Blend Silo Bag Filter	PM	0.09	0.37
2F-701	Blend Silo Bag Filter	PM	0.09	0.37
3F-701A	Blending Silo Bag Filter	PM	0.35	1.55
3F-701B	Blending Silo Bag Filter	PM	0.35	1.55
F-708A	Hopper Car Bag Filter F-708A	PM	0.05	0.21

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			lb/hr	TPY
F-708B	Hopper Car Bag Filter F-708B	PM	0.05	0.21
S-705	Packer Silo Cyclone Separator 0.28	PM		0.06
2S-705	Packer Silo Cyclone Separator 0.28	PM		0.06
S-707	Packer Silo Cyclone Separator 0.28	PM		0.06
2S-707	Packer Silo Cyclone Separator 0.28	PM		0.06
S-708A	Hopper Silo Cyclone Separator 0.28	PM		0.06
S-708B	Hopper Silo Cyclone Separator 0.28	PM		0.06
S-709A	Product Silos Cyclone Separator S-709A	PM	0.06	0.28
S-709B	Product Silos Cyclone Separator S-709B	PM	0.06	0.28
S405	Recycle Pellet Cyclone	PM	0.27	0.10
2S405	Recycle Pellet Cyclone	PM	0.27	0.10
3S405	Recycle Pellet Cyclone	PM	0.27	0.10
V102	Catalyst Dip Pot	VOC	0.53	0.03

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			lb/hr	TPY
Z405	Additive Dust Collector	PM	0.02	0.01
2Z405	Additive Dust Collector	PM	0.02	0.01
Z410	Powder Vacuum Cleaner	PM	0.01	<0.01
D301	HDPE Train A Dryer Vent (6) 11.8		VOC	44.0
2D-301	HDPE Train B Dryer Vent (6) 11.8		VOC	44.0
3D-301	HDPE Train C Dryer Vent (6) 11.8		VOC	44.0
3-FUGITIVE	HDPE 3 Fugitives (4)	VOC	3.25	14.22
P0-CT	Cooling Tower	VOC	1.32	5.79

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
H-02A	Thermal Incinerator No. 1 Stack (5)	VOC	1.94	
		NO <sub>x</sub>	5.38	
		CO	10.66	
		SO <sub>2</sub>	0.03	
		PM	0.20	
H-02B	Thermal Incinerator No. 2 Stack (5)	VOC	1.94	
		NO <sub>x</sub>	5.38	
		CO	10.66	
		SO <sub>2</sub>	0.03	
		PM	0.20	
PP2-CT	Cooling Tower	VOC	1.32	5.79
H923A	Thermal Incinerator (5)	VOC	1.88	6.80
		NO <sub>x</sub>	8.64	31.23
		CO	15.42	55.74
		SO <sub>2</sub>	0.05	0.17
		PM	0.76	2.75
H923B	Thermal Incinerator (5)	VOC	1.88	
		NO <sub>x</sub>	8.64	
		CO	15.42	
		SO <sub>2</sub>	0.05	
		PM	0.76	
2F-302B	Powder Silo Bag Filter	PM	0.13	0.15
3F-302B	Powder Silo Bag Filter	PM	0.16	0.21
3F-708B	Railcar Bag Filter	PM	0.52	1.60
3V305	Seal Dip Pot	VOC	0.01	0.01

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- (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) CO - carbon monoxide  
NO<sub>x</sub> -total oxides of nitrogen  
SO<sub>2</sub> -sulfur dioxide  
PM -particulate matter, suspended in the atmosphere, including PM<sub>10</sub>  
PM<sub>10</sub> -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
- (4) Fugitive emission rates are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The emissions from the incinerator stacks are the total emissions related to disposal of waste gases from the high density polyethylene, linear low density polyethylene, and polypropylene plants. The sum of all annual emissions from all of the incinerators shall not exceed the maximum allowable emission rates listed for EPN H-923A.
- (6) The combined total annual emissions from EPNs D301, 2D-301, and 3D-301 shall not exceed 11.8 TPY.

\* 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 \_\_\_\_\_