

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 19201 and PSD-TX-760M6

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	2.76	12.10
		PM	0.06	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
3F-302	Powder Silo Bag Filter	PM	0.16	0.62

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			<u>lb/hr</u>	<u>TPY</u>
F401	Powder Feed Hopper Bag Filter	PM	<0.01	0.01
2F401	Powder Feed Hopper Bag Filter	PM	<0.01	0.01
3F401	Powder Feed Hopper Bag Filter	PM	<0.01	0.01
F408	Powder Feed Hopper Bag Filter	PM	<0.01	0.01
2F408	Powder Feed Hopper Bag Filter	PM	<0.01	0.01
3F408	Powder Feed Hopper Bag Filter	PM	<0.01	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
F-708B	Hopper Car Bag Filter F-708B	PM	0.05	0.21
S-705	Packer Silo Cyclone Separator	PM	0.06	0.28
2S-705	Packer Silo Cyclone Separator	PM	0.06	0.28
S-707	Packer Silo Cyclone Separator	PM	0.06	0.28
2S-707	Packer Silo Cyclone Separator	PM	0.06	0.28

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S-708A	Hopper Silo Cyclone Separator	PM	0.06	0.28
S-708B	Hopper Silo Cyclone Separator	PM	0.06	0.28
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
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)	VOC	44.0	11.8
2D-301	HDPE Train B Dryer Vent (6)	VOC	44.0	11.8
3D-301	HDPE Train C Dryer Vent (6)	VOC	44.0	11.8
3-FUGITIVE	HDPE 3 Fugitives (4)	VOC	3.25	14.22
PO-CT	Cooling Tower	VOC	1.32	5.79

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			<u>lb/hr</u>	<u>TPY</u>
H-02B	Thermal Incinerator No. 2 Stack (5)	VOC	1.94	
		NO _x	5.38	
		CO	10.66	
		SO ₂	0.03	
		PM	0.20	
PP2-CT	Cooling Tower	VOC	1.32	5.79
H923A	Thermal Incinerator (5)	VOC	1.88	6.80
		NO _x	8.64	31.23
		CO	15.42	55.74
		SO ₂	0.05	0.17
		PM	0.76	2.75
H923B	Thermal Incinerator (5)	VOC	1.88	
		NO _x	8.64	
		CO	15.42	
		SO ₂	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
1018	Olefins I Elevated Flare (7)	CO	10.70	14.06
		NO _x	2.10	2.76
		VOC	13.12	34.48
1067	Olefins II Elevated Flare (7)	CO	10.70	14.06
		NO _x	2.10	2.76
		VOC	13.12	34.48

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- (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 area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - 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 is emitted.
 - NO_x - total oxides of nitrogen
 - CO - carbon monoxide
 - SO₂ - sulfur dioxide
- (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.
- (7) The emissions contributed only from this permitted facility which is the HDPE I unit. The vents from the HDPE I 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 HDPE I unit can vent to EPN 1018 with no vents from the HDPE I unit venting at the same time to EPN 1067.
 - B. All vents from the HDPE I unit can vent to EPN 1067 with no vents from the HDPE I unit venting at the same time to EPN 1018.

* 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

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Dated _____