EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 19201 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)	Emission Rates * lb/hr	TPY**
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	0.56	0.53
5T6020	Tank T-502	VOC	0.56	0.53
5T6030	Tank 2T-502	VOC	0.56	0.53
5T6040	Tank T-503	VOC	0.56	0.53
5T6050	Tank 2T-503	VOC	0.56	0.53
D301	HDPE Train A Dryer Vent (11)	VOC	44.0	11.80
2D-301	HDPE Train B Dryer Vent (11)	VOC	44.0	11.80
3D-301	HDPE Train C Dryer Vent (11)	VOC	44.0	11.80
F-302	Powder Silo Bag Filter	PM_{10}	0.10	0.42

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
2F-302	Powder Silo Bag Filter	PM_{10}	0.10	0.42
3F-302	Powder Silo Bag Filter	PM_{10}	0.16	0.62
F401	Powder Feed Hopper Bag Filter	PM_{10}	0.01	0.01
2F401	Powder Feed Hopper Bag Filter	PM_{10}	0.01	0.01
3F401	Powder Feed Hopper Bag Filter	PM_{10}	0.01	0.01
F408	Powder Feed Hopper Bag Filter	PM_{10}	0.01	0.01
2F408	Powder Feed Hopper Bag Filter	PM_{10}	0.01	0.01
3F408	Powder Feed Hopper Bag Filter	PM_{10}	0.01	0.01
3F708A	Elutriate Bag Filter (7)	PM_{10}	1.34	4.35
F-701	Blend Silo Bag Filter	PM_{10}	0.09	0.37
2F-701	Blend Silo Bag Filter	PM_{10}	0.09	0.37
3F-701A	Blending Silo Bag Filter	PM_{10}	0.35	1.55
3F-701B	Blending Silo Bag Filter	PM_{10}	0.35	1.55
F-708A	Hopper Car Bag Filter F-708A	PM_{10}	0.05	0.21
F-708B	Hopper Car Bag Filter F-708B	PM_{10}	0.05	0.21
S-705	Packer Silo Cyclone Separator	PM_{10}	0.06	0.28
2S-705	Packer Silo Cyclone Separator	PM_{10}	0.06	0.28
S-707	Packer Silo Cyclone Separator	PM_{10}	0.06	0.28

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
2S-707	Packer Silo Cyclone Separator	PM_{10}	0.06	0.28
S-708A	Hopper Silo Cyclone Separator	PM_{10}	0.06	0.28
S-708B	Hopper Silo Cyclone Separator	PM_{10}	0.06	0.28
S-709A	Product Silos Cyclone Separator S-709A	PM_{10}	0.06	0.28
S-709B	Product Silos Cyclone Separator S-709B	PM_{10}	0.06	0.28
S405	Recycle Pellet Cyclone (8)	PM_{10}	0.27	0.10
2S405	Recycle Pellet Cyclone (8)	PM_{10}	0.27	0.10
3S405	Recycle Pellet Cyclone (8)	PM_{10}	0.27	0.10
V102	Catalyst Dip Pot (9)	VOC	0.53	0.03
Z405	Additive Dust Collector	PM_{10}	0.02	0.08
2Z405	Additive Dust Collector	PM_{10}	0.02	0.08
Z410	Powder Vacuum Cleaner (8)	PM_{10}	0.01	0.01
PO-CT	Cooling Tower	VOC	1.32	5.79
PP2-CT	Cooling Tower	VOC	1.32	5.79
H923A	Thermal Incinerator (5)	CO	15.42	---
		NO_x	8.64	---
		PM_{10}	0.76	---
		SO_2	0.05	---
		VOC	1.88	---
H923B	Thermal Incinerator (5)	CO	15.42	---

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
		NO_x	8.64	---
		PM_{10}	0.76	---
		SO_2	0.05	---
		VOC	1.88	---
H923A/H923B	Thermal Incinerators	CO	---	55.74
	(Combined Annual Emissions	NO_x	---	31.23
	from Incinerators H923A	PM_{10}	---	2.75
	and H923B)	SO_2	---	0.17
		VOC	---	6.80
2F-302B	Powder Silo Bag Filter	PM_{10}	0.10	0.44
3F-302B	Powder Silo Bag Filter	PM_{10}	0.16	0.21
3F-708B	Railcar Bag Filter (7)	PM_{10}	0.52	1.60
3V305	Seal Dip Pot (9)	VOC	0.01	0.01
1018	Olefins I Elevated Flare (6)	CO	10.70	---
		NO_x	2.10	---
		SO_2	0.0	---
		VOC	13.12	---
1067	Olefins II Elevated Flare (6)	CO	10.70	---
		NO_x	2.10	---
		SO_2	0.01	---
		VOC	13.12	---
	Annual Emission Cap (6)	CO	---	14.06
		NO_x	---	2.76
		SO_2	---	0.01
		VOC	---	34.48
PE-FUG	Plant Process Fugitives (4)	PM_{10}	0.06	0.27
		VOC	25.31	110.87

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(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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
PM_{10} - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
CO - carbon monoxide
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
(4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
(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.
(6) 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 for 5,256 hours per year.
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 for 5,256 hours per year.
(7) 7,500 hours per year of operation
(8) 730 hours per year of operation
(9) 100 hours per year of operation
(10) The combined total annual emissions from EPNs D301, 2D-301, and 3D-301 shall not exceed 11.8 tons per year.

* 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 or Hrs/year 8,760

** Compliance with the annual limits is determined on rolling 12-month basis.

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Dated April 20, 2007