#### Permit Numbers 19201 and PSDTX1232

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, sources, and related activities. 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.	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
(1)			lbs/hour	TPY (4)
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	44.00 11.80	
2D-301	HDPE Train B Dryer Vent (11)	voc	44.00 11.80	
3D-301	HDPE Train C Dryer Vent (11)	VOC	44.00 11.80	
F-302	Powder Silo Bag Filter	PM <sub>10</sub>	0.10 0.42	
2F-302	Powder Silo Bag Filter	PM <sub>10</sub>	0.10 0.42	
3F-302	Powder Silo Bag Filter	PM <sub>10</sub>	0.16	0.62
F401	Powder Feed Hopper Bag Filter	PM <sub>10</sub>	0.01	0.01

2F401	Powder Feed Hopper Bag Filter	PM <sub>10</sub>	0.01	0.01
3F401	Powder Feed Hopper Bag Filter	PM <sub>10</sub>	0.01	0.01
F408	Powder Feed Hopper Bag Filter	PM <sub>10</sub>	0.01	0.01
2F408	Powder Feed Hopper Bag Filter	PM <sub>10</sub>	0.01	0.01
3F408	Powder Feed Hopper Bag Filter	PM <sub>10</sub>	0.01	0.01
3F708A	Elutriate Bag Filter (8)	PM <sub>10</sub>	1.34	4.35
F-701	Blend Silo Bag Filter	PM <sub>10</sub>	0.09	0.37
2F-701	Blend Silo Bag Filter	PM <sub>10</sub>	0.09	0.37
3F-701A	Blending Silo Bag Filter	PM <sub>10</sub>	0.35	1.55
3F-701B	Blending Silo Bag Filter	PM <sub>10</sub>	0.35	1.55
F-708A	Hopper Car Bag Filter F-708A	PM <sub>10</sub>	0.05	0.21
F-708B	Hopper Car Bag Filter F-708B	PM <sub>10</sub>	0.05	0.21
S-705	Packer Silo Cyclone Separator	PM <sub>10</sub>	0.06	0.28
2S-705	Packer Silo Cyclone Separator	PM <sub>10</sub>	0.06	0.28
S-707	Packer Silo Cyclone Separator	PM <sub>10</sub>	0.06	0.28
2S-707	Packer Silo Cyclone Separator	PM <sub>10</sub>	0.06	0.28
S-708A	Hopper Silo Cyclone Separator	PM <sub>10</sub>	0.06	0.28
S-708B	Hopper Silo Cyclone Separator	PM <sub>10</sub>	0.06	0.28
S-709A	Product Silos Cyclone Separator S-709A	PM <sub>10</sub>	0.06	0.28
S-709B	Product Silos Cyclone Separator	PM <sub>10</sub>	0.06	0.28

# Permit Number 19201 and PSDTX1232 Page 3

## Emission Sources - Maximum Allowable Emission Rates

	S-709B			
S405	Recycle Pellet Cyclone (9)	PM <sub>10</sub>	0.27	0.10
2S405	Recycle Pellet Cyclone (9)	PM <sub>10</sub>	0.27	0.10
3S405	Recycle Pellet Cyclone (9)	PM <sub>10</sub>	0.27	0.10
V102	Catalyst Dip Pot (10)	voc	0.53	0.03
Z405	Additive Dust Collector	PM <sub>10</sub>	0.02	0.08
2Z405	Additive Dust Collector	PM <sub>10</sub>	0.02	0.08
Z410	Powder Vacuum Cleaner (9)	PM <sub>10</sub>	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 (6)	со	15.42	-
		CO MSS	75.00	18.70
		NO <sub>x</sub> MSS	-	1.00
		NO <sub>x</sub>	8.64	-
		PM <sub>10</sub>	0.76	-
		SO <sub>2</sub>	0.05	-
		SO <sub>2</sub> MSS (12)	0.10	0.10
		voc	1.88	-
		VOC MSS (12)	-	0.20

H923B	Thermal Incinerator (6)	со	15.42	-
		CO MSS	75.00	18.70
		NO <sub>x</sub>	8.64	-
		NO <sub>x</sub> MSS	-	1.00
		PM <sub>10</sub>	0.76	-
		SO <sub>2</sub>	0.05	-
		SO <sub>2</sub> MSS (12)	0.10	0.10
		voc	1.88	-
		VOC MSS (12)	-	0.20
H923A/H923B	Thermal Incinerators (Combined Annual Emissions from Incinerators H923A and H923B)	со	-	55.74
		NO <sub>x</sub>	-	31.23
		PM <sub>10</sub>	-	2.75
		SO <sub>2</sub>	-	0.17
		voc	-	6.80
2F-302B	Powder Silo Bag Filter	PM <sub>10</sub>	0.10	0.44
3F-302B	Powder Silo Bag Filter	PM <sub>10</sub>	0.16	0.21
3F-708B	Railcar Bag Filter (8)	PM <sub>10</sub>	0.52	1.60
3V305	Seal Dip Pot (10)	voc	0.01	0.01
1018	Olefins I Elevated Flare (7)	со	10.70	-
		CO MSS	65.30	9.90
		NO <sub>x</sub>	2.10	-
		NO <sub>x</sub> MSS	9.00	1.50
		SO <sub>2</sub>	0.01	-
		voc	13.12	-

		VOC MSS	243.20	16.70
1067	Olefins II Elevated			
1067	Flare (7)	СО	10.70	-
		CO MSS	65.30	9.90
		NO <sub>x</sub>	2.10	-
		NO <sub>x</sub> MSS	9.00	1.50
		SO <sub>2</sub>	0.01	-
		voc	13.12	-
		VOC MSS	243.20	16.70
Annual Emission Cap (7)		со	-	14.06
		NO <sub>x</sub>	-	2.76
		SO <sub>2</sub>	-	0.01
		voc	-	34.48
PE-FUG	Plant Process Fugitives (5)	PM <sub>10</sub>	0.06	0.27
		voc	25.31	110.87
Maintenance, Startup	, And Shutdown (MS	S)		
D301 2D-301 3D-301	Dryer Vent MSS Activities	voc	132.00	37.50
PE-MSS	MSS to Atmosphere	voc	80.60	2.50
		РМ	0.20	0.30

- (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) VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - $NO_{\scriptscriptstyle X}$  total oxides of nitrogen
  - SO<sub>2</sub> sulfur dioxide
  - PM total particulate matter, suspended in the atmosphere, including  $PM_{10}$  and  $PM_{2.5}$ , as represented
  - CO carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) 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.
- (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 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.
- (8) 7,500 hours per year of operation
- (9) 730 hours per year of operation
- (10) 100 hours per year of operation
- (11) The combined total annual emissions from EPNs D301, 2D-301, and 3D-301 shall not exceed 11.8 tons per year.
- (12) Total VOC emissions from EPNs 1018, 1067, H923A, and H923B shall not exceed 66 lb/hr during planned MSS events. Total SO<sub>2</sub> emissions from EPNs H923A and H923B shall not exceed 0.1 lb.hr during planned MSS events.

Date:	November	30.	2012
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