Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 4437A, PSDTX808, and N014M2

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. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
1000	Catalytic Activator 1 Main Burner	PM	0.05	---
		PM10	0.05	---
		PM2.5	0.05	---
		SO2	<0.01	---
		NOx	0.67	---
		CO	0.56	---
		VOC	0.04	---
83	Catalytic Activator 2 Main Burner	PM	0.05	---
		PM10	0.05	---
		PM2.5	0.05	---
		SO2	<0.01	---
		NOx	0.67	---
		CO	0.56	---
		VOC	0.04	---

Emission Sources - Maximum Allowable Emission Rates

86	Catalytic Activator 3 Main Burner	PM	0.05	---
		PM10	0.05	---
		PM2.5	0.05	---
		SO2	<0.01	---
		NOx	0.67	---
		CO	0.56	---
		VOC	0.04	---
146	Catalytic Activator 4 Main Burner	PM	0.05	---
		PM10	0.05	---
		PM2.5	0.05	---
		SO2	<0.01	---
		NOx	0.67	---
		CO	0.56	---
		VOC	0.04	---
170	Catalytic Activator 5 Main Burner	PM	0.05	---
		PM10	0.05	---
		PM2.5	0.05	---
		SO2	<0.01	---
		NOx	0.67	---
		CO	0.56	---
		VOC	0.04	---

Emission Sources - Maximum Allowable Emission Rates

1000, 83, 86, 146, and 170	Catalytic Activator Burners 1-5	PM	---	0.94
		PM10	---	0.94
		PM2.5	---	0.94
		SO2	---	0.07
		NOx	---	12.34
		CO	---	10.37
		VOC	---	0.68
1001	Catalytic Activator 1 HEPA Filter Vent	PM	<0.01	---
		PM10	<0.01	---
		PM2.5	<0.01	---
		CO	5.17	---
		VOC	1.43	---
1002	Catalytic Activator 2 HEPA Filter Vent	PM	<0.01	---
		PM10	<0.01	---
		PM2.5	<0.01	---
		CO	5.17	---
		VOC	1.43	---
1003	Catalytic Activator 5 HEPA Filter Vent	PM	<0.01	---
		PM10	<0.01	---
		PM2.5	<0.01	---
		CO	5.17	---
		VOC	1.43	---

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1003A	Catalytic Activator 3 HEPA Filter Vent	PM	<0.01	---
		PM10	<0.01	---
		PM2.5	<0.01	---
		CO	5.17	---
		VOC	1.43	---
1003B	Catalytic Activator 4 HEPA Filter Vent	PM	<0.01	---
		PM10	<0.01	---
		PM2.5	<0.01	---
		SO2	0.28	---
		CO	5.17	---
		VOC	1.43	---
1001, 1002, 1003, 1003A, & 1003B	Catalytic Activators 1, 2, 3, 4, 5 HEPA Filter Vent	PM	---	<0.01
		PM10	---	<0.01
		PM2.5	---	<0.01
		SO2	---	0.19
		CO	---	4.73
		VOC	---	5.47
1004	Catalytic Activator Quench Station Vent (6)	PM	<0.01	<0.01
		PM10	<0.01	<0.01
		PM2.5	<0.01	<0.01
1005	Catalytic Activator Raw Catalyst Charging Bldg Vent	PM	<0.01	<0.01
		PM10	<0.01	<0.01
		PM2.5	<0.01	<0.01
1006	Catalytic Activator Drum Loading Enclosure Vent	PM	<0.01	<0.01
		PM10	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

		PM2.5	<0.01	0.01
1007	Catalytic Activator Fugitive Emissions	PM	<0.01	<0.01
		PM10	<0.01	<0.01
		PM2.5	<0.01	<0.01
123, 124, 125, & 126	Ponds No. 1, 2, 3, & 4	VOC	0.79	2.03
20	Administrative Complex Emergency Generator	PM	0.78	0.04
		PM10	0.78	0.04
		PM2.5	0.78	0.04
		SO2	0.80	0.04
		NOx	12.09	0.61
		CO	2.60	0.13
		VOC	0.96	0.05
201	Flash Tank Cleanout	VOC	1.15	---
250	Flash Tank Cleanout	VOC	1.15	---
201 & 250	Flash Tank Cleanout	VOC	---	0.15
206	Powder Additive Tank	PM	0.07	---
		PM10	0.07	---
		PM2.5	0.07	---
		VOC	0.04	---
252	Powder Additive Tank	PM	0.07	---
		PM10	0.07	---
		PM2.5	0.07	---
		VOC	0.04	---
206 & 252	Powder Additive Tanks	PM	---	0.08
		PM10	---	0.08

Emission Sources - Maximum Allowable Emission Rates

		PM2.5	---	0.08
		VOC	---	0.03
207	Pellet Dryer	VOC	0.61	2.68
208	Blend Tanks	PM	0.05	0.20
		PM10	0.05	0.20
		PM2.5	0.05	0.20
209	Off-Spec Tank	PM	0.05	---
		PM10	0.05	---
		PM2.5	0.05	---
255	Off-Spec Tank	PM	0.05	---
		PM10	0.05	---
		PM2.5	0.05	---
209 & 255	Off-Spec Tanks	PM	---	0.20
		PM10	---	0.20
		PM2.5	---	0.20
210	Pellet Storage Tanks/Cyclone Vents	PM	0.07	0.30
		PM10	0.07	0.30
		PM2.5	0.07	0.30
217 A,B	Extruder Feed Tank & Cont Bleeder Vent	PM	0.02	0.08
		PM10	0.02	0.08
		PM2.5	0.02	0.08
		VOC	2.85	12.5
219	Pellet Loadout Filter	PM	0.02	0.10
		PM10	0.02	0.10
		PM2.5	0.02	0.10

Emission Sources - Maximum Allowable Emission Rates

PE6-Pellet	P6 Pellet Loss	VOC	10.45	45.76
253	Pellet Dryer	VOC	0.61	2.68
254	Blend Tanks	PM	0.05	0.20
		PM10	0.05	0.20
		PM2.5	0.05	0.20
256	PE 6 Analyzer Vents	VOC	0.03	0.11
		NOx	<0.01	0.01
		CO	<0.01	0.01
257	Pellet Storage Tanks/Cyclone Vents	PM	0.07	0.30
		PM10	0.07	0.30
		PM2.5	0.07	0.30
259	PE6 Piping Fugitives (5)	VOC	11.07	48.47
260	Plant 6 Cooling Tower	VOC	1.18	3.86
261 A,B	Extruder Feed Tank & Cont Bleeder Vent	PM	0.02	0.08
		PM10	0.02	0.08
		PM2.5	0.02	0.08
		VOC	2.85	12.50
27	Water Well Number 5 Engine	PM	0.03	0.01
		PM10	0.03	0.01
		PM2.5	0.03	0.01
		SO2	<0.01	<0.01
		NOx	0.27	0.12
		CO	0.40	0.18
		VOC	0.05	0.02
300	Flash Tank Cleanout	VOC	1.15	---

Emission Sources - Maximum Allowable Emission Rates

350	Flash Tank Cleanout	VOC	1.15	---
300 & 350	Flash Tanks Cleanout	VOC	---	0.15
302	Powder Additive Tank	PM	0.07	---
		PM10	0.07	---
		PM2.5	0.07	---
		VOC	0.04	---
352	Powder Additive Tank	PM	0.07	---
		PM10	0.07	---
		PM2.5	0.07	---
		VOC	0.04	---
302 & 352	Powder Additive Tanks	PM	---	0.08
		PM10	---	0.08
		PM2.5	---	0.08
		VOC	---	0.03
303	Pellet Dryer	VOC	0.51	2.21
304	Pellet Blending & Storage	PM	0.20	0.33
		PM10	0.20	0.33
		PM2.5	0.20	0.33
305	Pellet Loadout Bag Filter	PM	0.02	0.10
		PM10	0.02	0.10
		PM2.5	0.02	0.10
305A	Pelletron Deduster	PM	0.09	0.38
		PM10	0.09	0.38
		PM2.5	0.09	0.38
306	PE7 Piping Fugitives (5)	VOC	18.52	80.95

Emission Sources - Maximum Allowable Emission Rates

307	Plant 7 Cooling Tower	VOC	1.74	4.58
311	Fluff Hopper Car Dust Bag Filter	PM	0.04	0.10
		PM10	0.04	0.10
		PM2.5	0.04	0.10
		VOC	0.29	1.28
312	Pellet Hopper Car Loading Filter	PM	0.03	0.12
		PM10	0.03	0.12
		PM2.5	0.03	0.12
313	Extruder Feed Tank & Cont. Bleeder Vent	PM	0.01	0.05
		PM10	0.01	0.05
		PM2.5	0.01	0.05
		VOC	2.85	12.50
PE7-PELLET	P7 Pellet Loss	VOC	10.45	45.76
353	Pellet Dryer	VOC	0.51	2.21
354	Blend Tanks	PM	0.20	0.33
		PM10	0.20	0.33
		PM2.5	0.20	0.33
355	Extruder Feed Tank & Cont. Bleeder Vent	PM	0.01	0.05
		PM10	0.01	0.05
		PM2.5	0.01	0.05
		VOC	2.85	12.50
356	PE 7 Analyzer Vents	VOC	0.03	0.10
		NOx	<0.01	<0.01
		CO	<0.01	0.01
400	Flash Tank Cleanout	VOC	1.15	---

Emission Sources - Maximum Allowable Emission Rates

450	Flash Tank Cleanout	VOC	1.15	---
400 & 450	Flash Tanks Cleanout	VOC	---	0.15
402	Powder Additive Tank	PM	0.07	---
		PM10	0.07	---
		PM2.5	0.07	---
402	Powder Additive Tank	VOC	0.04	---
452	Powder Additive Tank	PM	0.07	---
		PM10	0.07	---
		PM2.5	0.07	---
		VOC	0.04	---
402 & 452	Powder Additive Tanks	PM	---	0.08
		PM10	---	0.08
		PM2.5	---	0.08
		VOC	---	0.03
403	Pellet Dryer	VOC	1.82	7.97
404	Pellet Blending & Storage/Cyclone	PM	0.03	0.09
		PM10	0.03	0.09
		PM2.5	0.03	0.09
405	Pellet Loadout Bag Filter	PM	0.01	0.02
		PM10	0.01	0.02
		PM2.5	0.01	0.02
406	PE8 Piping Fugitives (5)	VOC	15.02	66.01
407	Plant 8 Cooling Tower	VOC	1.58	4.14
413	Extruder Feed Tank & Cont. Bleeder Vent	PM	0.07	0.32
		PM10	0.07	0.32

Emission Sources - Maximum Allowable Emission Rates

		PM2.5	0.07	0.32
		VOC	2.85	12.49
414	Pellet Transfer Hopper	PM	0.01	0.03
		PM10	0.01	0.03
		PM2.5	0.01	0.03
PE8-PELLET	PE 8 Pellet Loss	VOC	16.05	70.28
453	Pellet Dryer	VOC	1.82	7.97
454	Blend Tanks	PM	0.03	0.09
		PM10	0.03	0.09
		PM2.5	0.03	0.09
455	Extruder Feed Tank & Cont. Bleeder Vent	PM	0.07	0.32
		PM10	0.07	0.32
		PM2.5	0.07	0.32
		VOC	2.85	12.49
456	PE 8 Analyzer Vents	VOC	0.34	0.47
		NOx	<0.01	<0.01
		CO	0.01	<0.01
65	Underground Gas Tank	VOC	8.33	0.04
65.2	Diesel Tank	VOC	0.26	0.01
900	HC Storage Fugitives (5)	VOC	0.31	1.33
901	HC Storage Fugitives (5)	VOC	1.89	8.27

Emission Sources - Maximum Allowable Emission Rates

308 (7)	PE 6/7 Flare	NOx	46.99	---
		CO	402.90	---
		VOC	172.05	---
		SO2	0.22	---
408 (7)	PE 8 Flare	NOx	46.99	---
		CO	402.90	---
		VOC	172.05	---
		SO2	0.22	---
216 (7)	PE Flare	NOx	46.99	---
		CO	402.90	---
		VOC	172.05	---
		SO2	0.22	---
308, 408, and 216 (7), (8)	All Flares Routine Emissions (CO, SO2, and NOx limits include both routine and MSS)	NOx	46.99	53.00
		CO	402.90	460.00
		VOC	172.05	184.80
		SO2	0.22	0.34
308, 408, and 216 (7), (8)	All Flares MSS Emissions	VOC	172.58	11.40
201, 206, 216 (7), 217A, 217B, 25o, 252, 259, 261A, 261B, 300, 302, 306, 308 (7), 311, 313, 350, 352, 355, 400, 402, 406, 408 (7), 413, 450, 452, 455, 901, PE6-PELLET, PE7-PELLET, PE8-PELLET	Hexene Cap	Hexene	21.95	64.29
MSSCAP	MSS Cap (EPNs 8, 10, 902, 903, DEG-1, 2, 3, 4, 6, PEPPMSSATM, PEPPMSSLD), AEROSOL, MISCMSS, FLTCOMSS,	VOC	67.96	12.14
		PM	9.54	2.26

Emission Sources - Maximum Allowable Emission Rates

		PM10	8.03	1.35
		PM2.5	8.03	1.35

(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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
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) Emergency use only.
(7) Emission limits for the PE Flare (EPN 216), the PE 6/7 Flare (EPN 308), and the PE 8 Flare (EPN 408) include routine and off-gas operation. Flare emissions are based on total flow rate and composition of all process vents.
(8) Combined emission limits designated as “All Flares” shall not be exceeded no matter how many flares are in operation.

Date: November 20, 2015