

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	---
		PM ₁₀	0.05	---
		PM _{2.5}	0.05	---
		SO ₂	<0.01	---
		NO _x	0.67	---
		CO	0.56	---
		VOC	0.04	---
83	Catalytic Activator 2 Main Burner	PM	0.05	---
		PM ₁₀	0.05	---
		PM _{2.5}	0.05	---
		SO ₂	<0.01	---
		NO _x	0.67	---
		CO	0.56	---
		VOC	0.04	---

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86	Catalytic Activator 3 Main Burner	PM	0.05	---
		PM ₁₀	0.05	---
		PM _{2.5}	0.05	---
		SO ₂	<0.01	---
		NO _x	0.67	---
		CO	0.56	---
		VOC	0.04	---
146	Catalytic Activator 4 Main Burner	PM	0.05	---
		PM ₁₀	0.05	---
		PM _{2.5}	0.05	---
		SO ₂	<0.01	---
		NO _x	0.67	---
		CO	0.56	---
		VOC	0.04	---
170	Catalytic Activator 5 Main Burner	PM	0.05	---
		PM ₁₀	0.05	---
		PM _{2.5}	0.05	---
		SO ₂	<0.01	---
		NO _x	0.67	---
		CO	0.56	---
		VOC	0.04	---

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1000, 83, 86, 146, and 170	Catalytic Activator Burners 1-5	PM	---	0.94
		PM ₁₀	---	0.94
		PM _{2.5}	---	0.94
		SO ₂	---	0.07
		NO _x	---	12.34
		CO	---	10.37
		VOC	---	0.68
1001	Catalytic Activator 1 HEPA Filter Vent	PM	<0.01	---
		PM ₁₀	<0.01	---
		PM _{2.5}	<0.01	---
		CO	25.36	---
		VOC	9.99	---
1002	Catalytic Activator 2 HEPA Filter Vent	PM	<0.01	---
		PM ₁₀	<0.01	---
		PM _{2.5}	<0.01	---
		VOC	9.99	---
1003	Catalytic Activator 5 HEPA Filter Vent	PM	<0.01	---
		PM ₁₀	<0.01	---
		PM _{2.5}	<0.01	---
		CO	25.36	---
		VOC	9.99	---
1003A	Catalytic Activator 3 HEPA Filter Vent	PM	<0.01	---
		PM ₁₀	<0.01	---
		PM _{2.5}	<0.01	---
		VOC	9.99	---
1003B	Catalytic Activator 4 HEPA Filter Vent	PM	<0.01	---

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		PM ₁₀	<0.01	---
		PM _{2.5}	<0.01	---
		SO ₂	0.28	---
		VOC	9.99	---
1001, 1002, 1003, 1003A, & 1003B	Catalytic Activators 1, 2, 3, 4, 5 HEPA Filter Vent	PM	---	<0.01
		PM ₁₀	---	<0.01
		PM _{2.5}	---	<0.01
		SO ₂	---	0.19
		CO	---	4.73
		VOC	---	5.76
1004	Catalytic Activator Quench Station Vent (6)	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
1005	Catalytic Activator Raw Catalyst Charging Bldg Vent	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
1006	Catalytic Activator Drum Loading Enclosure Vent	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
1007	Catalytic Activator Fugitive Emissions	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
20	Administrative Complex Emergency Generator	PM	0.86	0.04
		PM ₁₀	0.86	0.04
		PM _{2.5}	0.86	0.04
		SO ₂	0.80	0.04

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		NO _x	12.09	0.60
		CO	2.61	0.13
		VOC	0.96	0.05
201	Flash Tank Cleanout	VOC	1.00	---
250	Flash Tank Cleanout	VOC	1.00	---
201 & 250	Flash Tank Cleanout	VOC	---	0.15
206	Powder Additive Tank	PM	0.07	---
		PM ₁₀	0.07	---
		PM _{2.5}	0.07	---
		VOC	0.03	---

252	Powder Additive Tank	PM	0.07	---
		PM ₁₀	0.07	---
		PM _{2.5}	0.07	---
		VOC	0.03	---
206 & 252	Powder Additive Tanks	PM	---	0.08
		PM ₁₀	---	0.08
		PM _{2.5}	---	0.08
		VOC	---	0.03
207	Pellet Dryer	VOC	0.61	2.68
208	Blend Tanks	PM	0.04	0.19
		PM ₁₀	0.04	0.19
		PM _{2.5}	0.04	0.19
209	Off-Spec Tank	PM	0.05	---
		PM ₁₀	0.05	---

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		PM _{2.5}	0.05	---
255	Off-Spec Tank	PM	0.05	---
		PM ₁₀	0.05	---
		PM _{2.5}	0.05	---
209 & 255	Off-Spec Tanks	PM	---	0.20
		PM ₁₀	---	0.20
		PM _{2.5}	---	0.20
210	Pellet Storage Tanks/Cyclone Vents	PM	0.15	0.67
		PM ₁₀	0.15	0.67
		PM _{2.5}	0.15	0.67
217	Extruder Feed Tank & Cont Bleeder Vent	PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
		VOC	2.85	12.50
219	Pellet Loadout Filter	PM	0.04	0.21
		PM ₁₀	0.04	0.21
		PM _{2.5}	0.04	0.21
PE6-Pellet	P6 Pellet Loss	VOC	9.60	36.79
253	Pellet Dryer	VOC	0.61	2.68
254	Blend Tanks	PM	0.04	0.19
		PM ₁₀	0.04	0.19
		PM _{2.5}	0.04	0.19
256	PE 6 Analyzer Vents	VOC	0.01	0.05
257	Pellet Storage Tanks/Cyclone Vents	PM	0.15	0.67
		PM ₁₀	0.15	0.67
		PM _{2.5}	0.15	0.67

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259	PE6 Piping Fugitives (5)	VOC	11.07	48.47
260	Plant 6 Cooling Tower	PM	1.68	7.36
		PM ₁₀	0.96	4.21
		PM _{2.5}	<0.01	0.02
		VOC	1.18	3.86
261	Extruder Feed Tank & Cont Bleeder Vent	PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
		VOC	2.85	12.50
27	Water Well Number 5 Engine	PM	0.03	0.01
		PM ₁₀	0.03	0.01
		PM _{2.5}	0.03	0.01
		SO ₂	<0.01	<0.01
		NO _x	0.27	0.12
		CO	0.40	0.18
		VOC	0.05	0.02
300	Flash Tank Cleanout	VOC	1.00	---
350	Flash Tank Cleanout	VOC	1.00	---
300 & 350	Flash Tanks Cleanout	VOC	---	0.15
302	Powder Additive Tank	PM	0.07	---
		PM ₁₀	0.07	---
		PM _{2.5}	0.07	---
		VOC	0.03	---
352	Powder Additive Tank	PM	0.07	---
		PM ₁₀	0.07	---
		PM _{2.5}	0.07	---

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		VOC	0.03	---
302 & 352	Powder Additive Tanks	PM	---	0.08
		PM ₁₀	---	0.08
		PM _{2.5}	---	0.08
		VOC	---	0.03
303	Pellet Dryer	VOC	0.51	2.21
304	Pellet Blending & Storage	PM	0.21	0.33
		PM ₁₀	0.21	0.33
		PM _{2.5}	0.21	0.33
305	Pellet Loadout Bag Filter	PM	0.04	0.34
		PM ₁₀	0.04	0.34
		PM _{2.5}	0.04	0.34
305A	Pelletron Deduster	PM	0.01	0.02
		PM ₁₀	0.01	0.02
		PM _{2.5}	0.01	0.02
306	PE7 Piping Fugitives (5)	VOC	18.48	80.95
307	Plant 7 Cooling Tower	PM	0.50	2.20
		PM ₁₀	0.29	1.26
		PM _{2.5}	<0.01	<0.01
		VOC	1.75	4.58
311	Fluff Hopper Car Dust Bag Filter	PM	0.04	0.10
		PM ₁₀	0.04	0.10
		PM _{2.5}	0.04	0.10
		VOC	0.29	0.67

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313	Extruder Feed Tank & Cont. Bleeder Vent	PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
		VOC	2.85	12.50
PE7-PELLET	P7 Pellet Loss	VOC	9.60	36.79
353	Pellet Dryer	VOC	0.51	2.21
354	Pellet Blending and Storage	PM	0.21	0.33
		PM ₁₀	0.21	0.33
		PM _{2.5}	0.21	0.33
355	Extruder Feed Tank & Cont. Bleeder Vent	PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
		VOC	2.85	12.50
356	PE 7 Analyzer Vents	VOC	0.01	0.05
400	Flash Tank Cleanout	VOC	1.01	---
450	Flash Tank Cleanout	VOC	1.01	---
400 & 450	Flash Tanks Cleanout	VOC	---	0.12
402	Powder Additive Tank	PM	0.07	---
		PM ₁₀	0.07	---
		PM _{2.5}	0.07	---
		VOC	0.03	---

452	Powder Additive Tank	PM	0.07	---
		PM ₁₀	0.07	---

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		PM _{2.5}	0.07	---
		VOC	0.03	---
402 & 452	Powder Additive Tanks	PM	---	0.08
		PM ₁₀	---	0.08
		PM _{2.5}	---	0.08
		VOC	---	0.03
403	Pellet Dryer	VOC	1.82	7.97
404	Pellet Blending & Storage/Cyclone	PM	0.07	0.25
		PM ₁₀	0.07	0.25
		PM _{2.5}	0.07	0.25
405	Pellet Loadout Bag Filter	PM	0.01	0.02
		PM ₁₀	0.01	0.02
		PM _{2.5}	0.01	0.02
406	PE8 Piping Fugitives (5)	VOC	15.02	65.80
407	Plant 8 Cooling Tower	PM	0.45	1.97
		PM ₁₀	0.26	1.13
		PM _{2.5}	<0.01	<0.01
		VOC	1.58	4.14
413	Extruder Feed Tank & Cont. Bleeder Vent	PM	0.01	0.06
		PM ₁₀	0.01	0.06
		PM _{2.5}	0.01	0.06
		VOC	2.85	12.50
414	Pellet Transfer Hopper	PM	0.01	0.03
		PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
PE8-PELLET	PE 8 Pellet Loss	VOC	9.60	36.79

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453	Pellet Dryer	VOC	1.82	7.97
454	Pellet Blending & Storage/Cyclone	PM	0.07	0.25
		PM ₁₀	0.07	0.25
		PM _{2.5}	0.07	0.25
455	Extruder Feed Tank & Cont. Bleeder Vent	PM	0.01	0.06
		PM ₁₀	0.01	0.06
		PM _{2.5}	0.01	0.06
		VOC	2.85	12.50
456	PE 8 Analyzer Vents	VOC	0.01	0.07
65.2	Diesel Tank	VOC	0.26	0.01
900	HC Unloading Fugitives (5)	VOC	0.30	1.33
901	HC Storage Fugitives (5)	VOC	1.89	8.27
308 (7)	PE 6/7 Flare	NO _x	46.99	---
		CO	402.90	---
		VOC	172.05	---
		SO ₂	0.22	---
408 (7)	PE 8 Flare	NO _x	46.99	---
		CO	402.90	---
		VOC	172.05	---
		SO ₂	0.22	---
216 (7)	PE Flare	NO _x	46.99	---
		CO	402.90	---
		VOC	172.05	---
		SO ₂	0.22	---

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308, 408, and 216 (7), (8)	All Flares Routine Emissions (CO, SO ₂ , and NO _x limits include both routine and MSS)	NO _x	46.99	53.65
		CO	402.90	460.00
		VOC	172.05	184.80
		SO ₂	0.22	0.34
308, 408, and 216 (7), (8)	All Flares MSS Emissions	VOC	172.58	11.40
MSSCAP	MSS Cap (EPNs 8, 10, 902, 903, DEG- 2, 3, 4, PEMSSATM, PEMSSLD), AEROSOL, MISCMSS, FLTCOMSS, PE6CFMSS, PE7CFMSS, PE8CFMSS	VOC	67.47	11.85
		PM	9.54	2.26
		PM ₁₀	8.03	1.35
		PM _{2.5}	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
 - SO₂ - sulfur dioxide
 - PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ - 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 7, 2017