#### Flexible Permit Numbers 4437A, PSDTX808, and N014M1

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	Emissi	on Rates *
(1)		Name (3)	lbs/hour	TPY (4)
Flare System - Norma	l Operation **			
216	Flare	со		
308	Flare	со		
408	Flare	со		
Emission Cap (10)		со	403.22	300
Flare System - MSS:			,	,
216	Flare	СО		
308	Flare	СО		
408	Flare	СО		
Emission Cap		со	193.22	(10)
Flare System - Norma	l Operation		,	,
216	Flare	NO <sub>X</sub>		
308	Flare	NO <sub>X</sub>		
408	Flare	NO <sub>X</sub>		
	Emission Cap (10)	NO <sub>X</sub>	47.03	37.00
Flare System - MSS:			,	,
216	Flare	NO <sub>X</sub>		
308	Flare	NO <sub>X</sub>		
408	Flare	NOx		
Emission Cap		NOx	22.54	(10)

Flare System - N	lormal Operation			
216	Flare	SO <sub>2</sub>		
308	Flare	SO <sub>2</sub>		
408	Flare	SO <sub>2</sub>		
Emission Cap		SO <sub>2</sub>	0.25	0.19
Flare System - N	lormal Operations:			
216	Flare	voc		
308	Flare	voc		
408	Flare	VOC		
Emission Cap		VOC (8)	134.79	133.92
Flare System - M	ISS:			
216	Flare	voc		
308	Flare	voc		
408	Flare	voc		
Emission Cap		VOC (8)	246.15	12.43
Flare System Ca	ιρ - Offgas Flaring		·	·
216	Flare	voc		
308	Flare	voc		
408	Flare	voc		
Emission Cap		VOC*** (8)	37.26	50.88
Non Flare CO So	ources		-	
83	Activator No. 2 Main Burner	СО		
86	Activator No. 3 Main Burner	СО		
146	Activator No. 4 Main Burner	СО		
170	Activator No. 5 Main Burner	со		

ivator No. 1 Main Burner	СО		
ivator No. 1 HEPA Filter	СО		
ivator No. 2 HEPA Filter	со		
ivator No. 5 HEPA Filter	со		
ivator No. 3 HEPA Filter	со		
ivator No. 4 HEPA Filter	со		
ergency Generator (100 ırs per calendar year)	со		
ter Well #5 Engine (876 urs per calendar year)	СО		
	СО	34.52	16.8
ivator No. 2 Main Burner	NO <sub>X</sub>		
ivator No. 3 Main Burner	NO <sub>X</sub>		
ivator No. 4 Main Burner	NO <sub>X</sub>		
ivator No. 5 Main Burner	NO <sub>x</sub>		
ivator No. 1 Main Burner	NO <sub>X</sub>		
ergency Generator (100 ırs per calendar year)	NO <sub>X</sub>		
ter Well #5 Engine (876 ırs per calendar year)	NO <sub>X</sub>		
	NO <sub>x</sub>	17.11	14.24
ces:			
ivator No. 2 Main Burner	PM <sub>10</sub>		
ivator No. 3 Main Burner	PM <sub>10</sub>		
ivator No. 4 Main Burner	PM <sub>10</sub>		
ivator No. 5 Main Burner	PM <sub>10</sub>		
ivator No. 1 Main Burner	PM <sub>10</sub>		
	ivator No. 1 HEPA Filter ivator No. 2 HEPA Filter ivator No. 3 HEPA Filter ivator No. 3 HEPA Filter ivator No. 4 HEPA Filter ergency Generator (100 ers per calendar year) ter Well #5 Engine (876 ers per calendar year) ivator No. 2 Main Burner ivator No. 4 Main Burner ivator No. 5 Main Burner ivator No. 1 Main Burner ergency Generator (100 ers per calendar year) ter Well #5 Engine (876 ers per calendar year) ter Well #5 Engine (876 ers per calendar year)  ter Well #5 Engine (876 ers per calendar year)  ter Well #5 Engine (876 ers per calendar year)  ter Well #5 Engine (876 ers per calendar year)	ivator No. 1 HEPA Filter  ivator No. 2 HEPA Filter  ivator No. 3 HEPA Filter  co  ivator No. 3 HEPA Filter  co  ivator No. 4 HEPA Filter  co  ergency Generator (100  Irs per calendar year)  ter Well #5 Engine (876  Irs per calendar year)  co  ivator No. 2 Main Burner  ivator No. 3 Main Burner  ivator No. 4 Main Burner  ivator No. 5 Main Burner  ivator No. 5 Main Burner  ivator No. 1 Main Burner  ivator No. 2 Main Burner  ivator No. 1 Main Burner  ivator No. 2 Main Burner  ivator No. 3 Main Burner  PMox  ivator No. 3 Main Burner  ivator No. 3 Main Burner  ivator No. 4 Main Burner  ivator No. 3 Main Burner  ivator No. 4 Main Burner  PMox  ivator No. 4 Main Burner  ivator No. 4 Main Burner  PMox  ivator No. 4 Main Burner	ivator No. 1 HEPA Filter CO ivator No. 2 HEPA Filter CO ivator No. 3 HEPA Filter CO ivator No. 3 HEPA Filter CO ivator No. 4 HEPA Filter CO ivator No. 5 HEPA Filter CO co ivator No. 2 Main Burner NO ivator No. 2 Main Burner NO ivator No. 3 Main Burner NO ivator No. 5 Main Burner NO ivator No. 5 Main Burner NO ivator No. 1 Main Burner NO ivator No. 2 Main Burner NO ivator No. 3 Main Burner NO ivator No. 3 Main Burner NO ivator No. 3 Main Burner PM <sub>10</sub> ivator No. 2 Main Burner PM <sub>10</sub> ivator No. 3 Main Burner PM <sub>10</sub> ivator No. 4 Main Burner PM <sub>10</sub> ivator No. 4 Main Burner PM <sub>10</sub>

1004	Quench Station Vent (6)	PM <sub>10</sub>
1005	Raw Catalyst Charging Building	PM <sub>10</sub>
1006	Drum Unloading Enclosure	PM <sub>10</sub>
1007	Catalyst Fugitives (5)	PM <sub>10</sub>
208	PE6 Pellet Storage Tanks	PM <sub>10</sub>
209	PE6 Off-Spec Tank	PM <sub>10</sub>
210	PE6 Pellet Storage Tanks/ Cyclone Vents	PM <sub>10</sub>
217 A, B	PE6 Extruder Feed/Blender	PM <sub>10</sub>
219	PE6 Pellet Load out	PM <sub>10</sub>
254	PE6 Pellet Blend Tanks	PM <sub>10</sub>
255	PE6 Off-Spec Tank	PM <sub>10</sub>
257	PE6 Pellet PE6 Pellet Storage Tanks/ Cyclone Vents	PM <sub>10</sub>
261 A, B	PE6 Extruder Feed/Blender	PM <sub>10</sub>
302	PE7 Powder Storage Tank	PM <sub>10</sub>
304	PE7 Pellet Blend Tanks	PM <sub>10</sub>
305	PE7 Pellet Load out	PM <sub>10</sub>
311	PE7 Fluff Load out	PM <sub>10</sub>
313	PE7 Extruder Feed/Blender	PM <sub>10</sub>
352	PE7 Powder Storage Tank	PM <sub>10</sub>
354	PE7 Pellet Blend Tanks	PM <sub>10</sub>
355	PE7 Extruder Feed/Blender	PM <sub>10</sub>
402	PE8 Powder Storage Tank	PM <sub>10</sub>
405	PE8 Pellet Load out	PM <sub>10</sub>
413	PE8 Extruder Feed/Blender	PM <sub>10</sub>

452	DE9 Dowdor Storage Tonk	PM <sub>10</sub>		
	PE8 Powder Storage Tank			
455	PE8 Extruder Feed/Blender	PM <sub>10</sub>		
206	PE6 Powder Additive Tank	PM <sub>10</sub>		
252	PE6 Powder Additive Tank	PM <sub>10</sub>		
312	PE7 Pellet Loading	PM <sub>10</sub>		
404	PE8 Pellet Blending/Storage/ Cyclone	PM <sub>10</sub>		
454	PE8 Pellet Blending/Storage/ Cyclone	PM <sub>10</sub>		
1001	Activator No. 1 HEPA Filter	PM <sub>10</sub>		
1002	Activator No. 2 HEPA Filter	PM <sub>10</sub>		
1003	Activator No. 5 HEPA Filter	PM <sub>10</sub>		
1003A	Activator No. 3 HEPA Filter	PM <sub>10</sub>		
1003B	Activator No. 4 HEPA Filter	PM <sub>10</sub>		
10	Sandblasting Fugitives	PM <sub>10</sub>		
902	Rail Repair Sandblasting Fugitives	PM <sub>10</sub>		
20	Emergency Generator (100 hours per calendar year)	PM <sub>10</sub>		
27	Water Well # 5 Engine (876 hours per calendar year)	PM <sub>10</sub>		
8	Painting Fugitives	PM <sub>10</sub>		
903	Rail Car Painting	PM <sub>10</sub>		
Emission Cap		PM <sub>10</sub>	11.85	7.44
Non-Flare SO₂ Source	es:			
83	Activator No. 2 Main Burner	SO <sub>2</sub>		
86	Activator No. 3 Main Burner	SO <sub>2</sub>		
146	Activator No. 4 Main Burner	SO <sub>2</sub>		
170	Activator No. 5 Main Burner	SO <sub>2</sub>		
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1000	Activator No. 1 Main Burner	SO <sub>2</sub>		
20	Emergency Generator (100 hours per calendar year)	SO <sub>2</sub>		
27	Water Well # 5 Engine (876 hours per calendar year)	SO <sub>2</sub>		
Emission Cap		SO <sub>2</sub>	0.89	0.13
Non Flare PE VO	C Sources:			
83	Activator No. 2 Main Burner	VOC		
86	Activator No. 3 Main Burner	VOC		
146	Activator No. 4 Main Burner	VOC		
170	Activator No. 5 Main Burner	VOC		
1000	Activator No. 1 Main Burner	VOC		
201	PE6 Flash Tank	VOC		
206	Powder Storage Tank	VOC		
207	PE6 Pellet Dryer	VOC		
217 A, B	PE6 Extruder Feed/Blender	VOC		
PE6-PELLET	PE6 Pellet Loss	VOC		
250	PE6 Flash Tank	VOC		
252	Powder Storage Tank	VOC		
253	PE6 Pellet Dryer	VOC		
259	PE6 Piping Fugitives (5)	VOC		
260	PE6 Cooling Tower	VOC		
261 A, B	PE6 Extruder Feed/Blender	VOC		
300	PE7 Flash Tank	VOC		
302	Powder Storage Tank	VOC		
303	PE7 Pellet Dryer	VOC		

	1	1		
306	PE7 Piping Fugitives (5)	VOC		
307	PE7 Cooling Tower	VOC		
311	Fluff Hopper Car	VOC		
313	PE7 Extruder Feed/Blender	VOC		
PE7-PELLET	PE7 Pellet Loss	VOC		
350	PE7 Flash Tank	VOC		
352	Powder Storage Tank	VOC		
353	PE7 Pellet Dryer	VOC		
355	PE7 Extruder Feed/Blender	VOC		
400	PE8 Flash Tank	VOC		
402	Powder Storage Tank	VOC		
403	PE8 Pellet Dryer	VOC		
406	PE8 Piping Fugitives (5)	VOC		
407	PE8 Cooling Tower	VOC		
413	PE8 Extruder Feed/Blender	VOC		
PE8-PELLET	PE8 Pellet Loss	VOC		
450	PE8 Flash Tank	VOC		
452	Powder Storage Tank	VOC		
453	PE8 Pellet Dryer	VOC		
455	PE8 Extruder Feed/Blender	VOC		
Emission Cap		VOC (9)	119.57	480.59
Miscellaneous Facilit	ies VOC Sources			•
256	PE6 Analyzer Vents	VOC		
356	PE7 Analyzer Vents	VOC		
456	PE8 Analyzer Vents	VOC		
	1	1	1	

DEG-1	Maintenance Shop Degreaser No. 1	voc
DEG-2	Maintenance Shop Degreaser No. 2	voc
DEG-3	Catalyst Activator Degreaser	voc
DEG-4	PE Maintenance Shop Degreaser	voc
DEG-6	Hoist and Crane Shop Degreaser	voc
8	Painting Fugitives	VOC
901	Storage Fugitives (5)	VOC
903	Painting Fugitives	voc
123	Wastewater Pond No. 1	voc
124	Wastewater Pond No. 2	VOC
125	Wastewater Pond No. 3	VOC
126	Wastewater Pond No. 4	VOC
20	Emergency Generator (100 hours per calendar year)	voc
27	Water Well # 5 Engine (876 hours per calendar year)	voc
65	Underground Gasoline Tank	VOC
65.2	Diesel Tank	VOC
900	Piping Fugitives (5) (7)	voc
1001	Activator No. 1 HEPA Filter Vent	voc
1002	Activator No. 2 HEPA Filter Vent	voc
1003	Activator No. 5 HEPA Filter Vent	voc
1003A	Activator No. 3 HEPA Filter Vent	voc
1003B	Activator No. 4 HEPA Filter Vent	VOC

Emission Cap		VOC	49.09	27.32		
Hexene Sources:						
216	Flare	Hexene				
308	Flare	Hexene				
408	Flare	Hexene				
201	PE6 Flash Tank	Hexene				
206	Powder Storage Tanks	Hexene				
PE6-PELLET	PE6 Pellet Loss	Hexene				
217 A, B	PE6 Extruder Feed/Blender	Hexene				
250	PE6 Flash Tank	Hexene				
252	Powder Storage Tanks	Hexene				
259	PE6 Piping Fugitives (5)	Hexene				
261 A, B	PE6 Extruder Feed/Blender	Hexene				
300	PE7 Flash Tank	Hexene				
302	Powder Storage Tanks	Hexene				
306	PE7 Piping Fugitives (5)	Hexene				
311	Fluff Hopper Car	Hexene				
313	PE7 Extruder Feed/Blender	Hexene				
PE7-PELLET	PE7 Pellet Loss	Hexene				
350	PE7 Flash Tank	Hexene				
352	Powder Storage Tanks	Hexene				
355	PE7 Extruder Feed/Blender	Hexene				
400	PE8 Flash Tank	Hexene				
402	Powder Storage Tanks	Hexene				
406	PE8 Piping Fugitives (5)	Hexene				

413	PE8 Extruder Feed/Blender	Hexene		
PE8-PELLET	PE8 Pellet Loss	Hexene		
450	PE8 Flash Tank	Hexene		
452	Powder Storage Tanks	Hexene		
455	PE8 Extruder Feed/Blender	Hexene		
901	HC Storage Fugitives	Hexene		
Emission Cap		Hexene	19.81	74.95
Routine Maintenance	, Startup, and Shutdown (MSS)	<b>Emissions</b>		
PEPPMSSATM	MSS Equipment Opening	voc		
PEPPMSSLD	MSS Truck Loading	voc		
Emission Cap		VOC	35.14	0.29

- (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

HRVOC - highly reactive volatile organic compounds as defined in 30 TAC § 115.10

IOC-U - inorganic compounds (unspeciated)

NO<sub>x</sub> - 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

PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>,

as represented

PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40

Code of Federal Regulations Part 63, Subpart C

- (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) Isobutane, hexene, and n-hexane emissions only. Emissions of other materials at EPN 900 are covered in Permit Number 5662A.

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#### **Emission Sources - Emission Caps and Rates**

- (8) The allowable emission rates listed for individual VOC species from this EPN are included in the total VOC emission rates.
- (9) The allowable emission rates listed for individual VOC species from this EPN are included in the total VOC emission rates and represent emissions from the facility's cooling towers.
- (10) The annual cap for flare system normal operations includes MSS emissions.
- \* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hr/day 7 Days/week 52 Weeks/year

- \*\* The PSDTX808 emissions are those CO flare emissions attributable to Polyethylene VI, VII, and VIII.
- \*\*\* These are N014M1 emissions only. The PE off-gases are used as fuel gas in flares identified by EPN above. Other emissions associated with these flares are included in the emission caps found in the maximum allowable emission caps or rates table of this permit.

Date:		