### Flexible Permit Numbers 4437A, PSD-TX-808, and N014M1

This table lists the maximum allowable emission caps or 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.

Emission	Source	Air Contaminant		n Rates *
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	<u>TPY</u>
CO Sources				
Polyethylene Catalys	st Activation Facilities:			
83 86 146 170 1000 1001 1003	Activator No. 2 Main Burner Activator No. 3 Main Burner Activator No. 4 Main Burner Activator No. 5 Main Burner Activator No. 1 Main Burner Activator No. 1 HEPA Filter Activator No. 5 HEPA Filter	CO CO CO CO CO		
	Emission Cap	со	4.07	17.66
Flare System **				
216 308 408	Flare Flare Flare France	CO CO CO	192.80	394.23
	Emission Cap	CO	192.80	394.23
Flare System - Startu	up, Shutdown, and Maintenance	:		
216 308 408	Flare Flare Flare	CO CO		
	Emission Cap	СО	114.95	7.76

Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
NO <sub>x</sub> Sources:  Polyethylene Catalys	t Activation Facilities:				
83 86 146 170 1000	Activator No. 2 Main Burner Activator No. 3 Main Burner Activator No. 4 Main Burner Activator No. 5 Main Burner Activator No. 1 Main Burner	NO <sub>x</sub> NO <sub>x</sub> NO <sub>x</sub> NO <sub>x</sub>			
	<b>Emission Cap</b>	NO <sub>x</sub>	3.12	13.45	
Flare System					
216 308 408	Flare Flare Flare	NO <sub>x</sub> NO <sub>x</sub> NO <sub>x</sub>			
	Emission Cap	NO <sub>x</sub>	24.08	45.98	
Flare System - Startup, Shutdown, and Maintenance:					
216 308 408	Flare Flare Flare	NO <sub>x</sub> NO <sub>x</sub> NO <sub>x</sub>			
	Emission Cap	$NO_x$	13.41	0.91	

### AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<b>Emission</b>	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY

## PM<sub>10</sub> Sources:

# Polyethylene Catalyst Activation Facilities:

83	Activator No. 2 Main Burner	$PM_{10}$
86	Activator No. 3 Main Burner	$PM_{10}$
146	Activator No. 4 Main Burner	$PM_{10}$
170	Activator No. 5 Main Burner	$PM_{10}$
1000	Activator No. 1 Main Burner	$PM_{10}$
1004	Quench Station Vent (5)	$PM_{10}$
1005	Raw Catalyst Charging Building	$PM_{10}$
1006	Drum Unloading Enclosure	$PM_{10}$
1007	Catalyst Fugitives (4)	$PM_{10}$

# Polyethylene Plants:

208	PE6 Pellet Blend Tanks	$PM_{10}$
209	PE6 Off-Spec Tank	$PM_{10}$
210	PE6 Pellet Silos	$PM_{10}$
212	PE6 Pellet Blender	$PM_{10}$
217 A, B	PE6 Extruder Feed/Blender	$PM_{10}$
218	PE6 Fluff Loadout	$PM_{10}$
219	PE6 Pellet Loadout	$PM_{10}$
254	PE6 Pellet Blend Tanks	$PM_{10}$
255	PE6 Off-Spec Tank	$PM_{10}$
257	PE6 Pellet Silos	$PM_{10}$
258	PE6 Pellet Blender	$PM_{10}$
261 A, B	PE6 Extruder Feed/Blender	$PM_{10}$
302	PE7 Powder Additive Tank	$PM_{10}$
304	PE7 Pellet Blend Tanks	$PM_{10}$
305	PE7 Pellet Loadout	$PM_{10}$
311	PE7 Fluff Loadout	$PM_{10}$
313	PE7 Extruder Feed/Blender	$PM_{10}$
352	PE7 Powder Additive Tank	$PM_{10}$
354	PE7 Pellet Blend Tanks	$PM_{10}$

Emission	Source	Air Contaminant	Emission	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
355 402 405 411 412 413 452 455	PE7 Extruder Feed/Blender PE8 Powder Additive Tank PE8 Pellet Loadout PE8 Fluff Loadout PE8 Pellet Loading PE8 Extruder Feed/Blender PE8 Powder Additive Tank PE8 Extruder Feed/Blender	$PM_{10}$ $PM_{10}$ $PM_{10}$ $PM_{10}$ $PM_{10}$ $PM_{10}$ $PM_{10}$ $PM_{10}$ $PM_{10}$		
HAC Polypropylene	Plant:			
39C 716 736 748 751	Pellet Loading Spot 14 Train 1 Pure Additive Hopper Trains 3, 4 Pure Additive Hoppe Train 4 Extruder Feed Chute Baghouse	PM <sub>10</sub> PM <sub>10</sub> or PM <sub>10</sub> PM <sub>10</sub> PM <sub>10</sub>		
GPH Polypropylene	Plant:			
39D 810A 810B 810C 810D 811 813 817A 817B 817C 819A 819B 821 A, B	S-E PP Hopper Car Loading Additive Vent Filter A Additive Vent Filter B Additive Vent Filter C Additive Vent Filter D Additive Pressure ELBF Powder Feed Weigher Vent Filter Pellet Silo A Filter Pellet Silo B Filter Pellet Silo C Filter Blender Silo A Blender Silo B Pellet Feed Hopper Pellet Feed Hopper Pellet Feed Hopper Filter Railcar Unloading Filter Receive	$PM_{10}$ $PM_{10}$ $PM_{10}$ $PM_{10}$ $PM_{10}$ $PM_{10}$ $PM_{10}$ $PM_{10}$		

Emission	Source	Air Contaminant	Emission	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
February 2002 Amer	Emission Cap ndment Submittal Emission Cap	PM <sub>10</sub>	2.50	6.49
39A 39B 206 252 312 404 454 812 A, B 823 1001 1002 1003	Tank Farm Pellet Loading Spot 13 PE6 Powder Additive Tank PE6 Powder Additive Tank PE7 Pellet Loading PE8 Pellet Blend Tanks PE8 Pellet Blend Tanks Grizzley Vent Filter GPH Dense Phase Conveyor Sy Activator No. 1 HEPA Filter Activator Nos. 2, 3, and 4 HEPA Activator No. 5 HEPA Filter	$PM_{10}$	PM <sub>10</sub>	
Non Polymer Source	Emission Cap	PM <sub>10</sub>	0.67	1.23
10 902	Sandblasting Fugitives Rail Repair Sandblasting Fugitive  Emission Cap	PM <sub>10</sub> es PM <sub>10</sub>	2.10	1.26
SO <sub>2</sub> Sources:				
Polyethylene Catalys	st Activation Facilities			
83 86 146 170 1000	Activator No. 2 Main Burner Activator No. 3 Main Burner Activator No. 4 Main Burner Activator No. 5 Main Burner Activator No. 1 Main Burner	SO <sub>2</sub> SO <sub>2</sub> SO <sub>2</sub> SO <sub>2</sub> SO <sub>2</sub>		
Emis	sion Cap	SO <sub>2</sub>	0.02	80.0

### AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<b>Emission</b>	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY

# **VOC Sources:**

# Polyethylene Catalyst Activation Facilities:

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

# Polyethylene Plants:

201 207 208 209 210 212 217 A, B 219 250 253 254 255 257 258 259 260 261 A, B 300 303 304 305 306	PE6 Flash Tank PE6 Pellet Dryer PE6 Pellet Blend Tanks PE6 Off-Spec Tank PE6 Pellet Silos PE6 Pellet Blender PE6 Extruder Feed/Blender PE6 Pellet Loadout PE6 Flash Tank PE6 Pellet Dryer PE6 Pellet Blend Tanks PE6 Off-Spec Tank PE6 Pellet Silos PE6 Pellet Blender PE6 Piping Fugitives (4) PE6 Cooling Tower PE6 Extruder Feed/Blender PE7 Flash Tank PE7 Pellet Dryer PE7 Pellet Blend Tanks PE7 Pellet Loadout PE7 Piping Fugitives (4)	VOC VOC VOC VOC VOC VOC VOC VOC VOC VOC
306 307	PE7 Pellet Loadout PE7 Piping Fugitives (4) PE7 Cooling Tower	VOC

Emission	Source	Air Contaminant		on Rates *	
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	<u>TPY</u>	
313 350 353 354 355 400 403 404 405 406 407 413 450 453 454	PE7 Extruder Feed/Blender PE7 Flash Tank PE7 Pellet Dryer PE7 Pellet Blend Tanks PE7 Extruder Feed/Blender PE8 Flash Tank PE8 Pellet Dryer PE8 Pellet Blending and Storag PE8 Pellet Loadout PE8 Piping Fugitives (4) PE8 Cooling Tower PE8 Extruder Feed/Blender PE8 Flash Tank PE8 Pellet Dryer PE8 Pellet Dryer PE8 Pellet Blend Tanks PE8 Pellet Blend Tanks PE8 Extruder Feed/Blender	VOC VOC VOC VOC VOC VOC VOC VOC VOC VOC			
HAC Polypropylene	Plant:				
132	Cooling Tower	VOC			
GPH Polypropylene	Plant:				
803	Cooling Tower	VOC			
	Emission Cap	VOC	106.95	444.13	
June 2005 Amendment Submittal Emissions Cap (Subcap)					
HAC Polypropylene	Plant:				
39A 39B 39C 56	Tank Farm Pellet Loading Spot 13 Pellet Loading Spot 14 Piping Fugitives (4)	VOC VOC VOC			

Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
729 748 749 750 751	Train 2 Pellet Dryer Train 4 Extruder Chute Train 4 Extruder Vent Train 4 Pellet Dryer Baghouse	VOC VOC VOC VOC		
GPH Polypropylene	Plant:			
39D 801 816 817A 817B 817C 819A 819B 821 A, B 822 824	S-E PP Hopper Car Loading Piping Fugitives (4) Pellet Dryer Vent Pellet Silo A Filter Pellet Silo B Filter Pellet Silo C Filter Blender Silo A Blender Silo B Pellet Feed Hopper Pellet Feed Hopper GPH Aeration Hopper Transportation Blower GPH Powder Silo Transportation Blower Vent	VOC		
	Emission Cap	voc	31.88	98.38
February 2002 Amer	ndment Submittal Emission Cap			
256 356 456 752 754	PE6 Analyzer Vents PE7 Analyzer Vents PE8 Analyzer Vents Analyzer Vents Hot Oil Systems	VOC VOC VOC VOC		
	Emission Cap	VOC	0.19	0.82

Emission	Source A	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
Non Polymer Source	s:			
DEG-1 DEG-2 DEG-3 DEG-4 DEG-6 8 901 903	Maintenance Shop Degreaser No Maintenance Shop Degreaser No Catalyst Activator Degreaser PE Maintenance Shop Degrease Hoist and Crane Shop Degreaser Painting Fugitives Storage Fugitives (4) Painting Fugitives	o. 2VOC VOC r VOC		
	Emission Cap	VOC	28.07	23.19
Wastewater Ponds				
123 124 125 126	Wastewater Pond No. 1 Wastewater Pond No. 2 Wastewater Pond No. 3 Wastewater Pond No. 4	VOC VOC VOC		
	Emission Cap	VOC	0.86	2.21
Flare System:				
216 308 408	Flare Flare Flare	VOC VOC VOC		
	<b>Emission Cap</b>	VOC	157.39	200.47

## AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
Flare System - Start	up, Shutdown and Maintenance:			
216 308 408	Flare Flare Flare	VOC VOC VOC		
	Emission Cap	VOC	147.86	11.83
Hexene Sources:				
Flare System:				
216 308 408	Flare Flare Flare	Hexene Hexene Hexene		
Polyethylene Plants:				
201 217 250 259 261 300 306 313 350 355 400 406 413 450 455	PE6 Flash Tank PE6 Extruder Feed/Blender PE6 Flash Tank PE6 Piping Fugitives (4) PE6 Extruder Feed/Blender PE7 Flash Tank PE7 Piping Fugitives (4) PE7 Extruder Feed/Blender PE7 Flash Tank PE7 Extruder Feed/Blender PE8 Flash Tank PE8 Piping Fugitives (4) PE8 Extruder Feed/Blender PE8 Flash Tank PE8 Extruder Feed/Blender PE8 Flash Tank PE8 Extruder Feed/Blender	Hexene		
	Emission Cap	Hexene	21.85	81.18

**N014M1 Emission Cap** 

Emission	Source	Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY
216, 308, 408	PE/PP Off-Gases		VOC***	71.59	113.62
20	Emergency Generator (100 hours per calendar yea	er) PM <sub>10</sub> SO <sub>2</sub> VOC	CO NO <sub>x</sub> 0.78 0.80 0.96	2.61 12.09 0.04 0.04 0.05	0.13 0.60
27	Water Well Number Five Turl (405 hours per calendar yea		CO NO <sub>x</sub> 0.07 7.34 0.23	29.04 17.25 0.01 0.26 0.01	1.04 0.62
39Df	Hopper Car Loading Spot	VOC	PM <sub>10</sub> 0.03	0.01 0.04	0.01
65	Underground Gasoline Tank		VOC	8.33	0.04
65.2	Diesel Tank		VOC	0.26	0.01
721	Train 2 Weigh Tank	VOC	PM <sub>10</sub> 0.01	0.01 0.01	0.01
722	Train 2 Finishing Vent	VOC	PM <sub>10</sub> 0.13	0.03 0.15	0.12
728	Train 2 Farrel Continuous Mixer Vent		VOC	0.30	0.34
732	Train 3 Finishing Vent	VOC	PM <sub>10</sub> 0.85	0.03 1.11	0.12
741	Train 4 Weigh Tank	VOC	PM <sub>10</sub> 0.03	0.01 0.04	0.02
761	HAC Train 4 Peroxide Hoppe	er	PM <sub>10</sub>	0.01	0.02

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
823	GPH Dense Phase Conveyor S 0.01	System	PM <sub>10</sub>	0.01
900	Piping Fugitives (4) (6)	VOC	0.25	1.12
1001	Activator No. 1 HEPA Filter Ver	nt AA	0.55	1.71
1002	Activator No. 2-4 HEPA Filter V	/ent AA	0.55	1.71
1003	Activator No. 5 HEPA Filter Ve	nt AA	0.55	1.71

- (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) CO carbon monoxide
  - NO<sub>x</sub> total oxides of nitrogen
  - $PM_{10}$  particulate matter (PM) 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.
  - SO<sub>2</sub> sulfur dioxide
  - VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - AA acetic acid
- (4) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (5) Emergency use only.
- (6) Isobutane, hexene, and n-hexane emissions only. Emissions of other materials at EPN 900 are covered in Permit Number 5662A.
  - \* Emission rates are based on and the facilities are limited by the following maximum operating schedule:
- 24 Hrs/day 7 Days/week 52 Weeks/year

Flexible Permit Numbers 4437A, PSD-TX-808, and N014M1 Page 13				
EMISSION SOURCES - EMISSION CAPS AN	D RATES			
** The PSD-TX-808 emissions are those CO flare emissions attributal VIII.	ole to Polye	thylene VI, VII, and		
*** These are the N014M1 emissions only. The PE/PP 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.				
	Dated	January 5, 2006		