Permit Nos. 4437A and PSD-TX-808 and N014

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.

AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	-	<u>Emissic</u>	n Rates
Point No. (1)	Name (2)	Name (3)	-	1b/hr	TPY
CO, NO _x Sources:					
Flare System **:					
216 308 408	Flare Flare Flare	CO , NO_x CO , NO_x CO , NO_x			
Polyethylene Cat	alyst Activation Faci	lities:			
83 86 146 170 1000 1001 1003	Activator No. 2 Main Activator No. 3 Main Activator No. 4 Main Activator No. 5 Main Activator No. 1 Main Activator No. 1 HEPA Activator No. 5 HEPA	Burner Burner Burner Burner Filter	CO, CO, CO, CO,	NO _x NO _x NO _x	
	Emission Cap Emission Cap	CO NO _x	1	165.9 22.2	482.5 68.7

PM₁₀ Sources:

Polyethylene Catalyst Activation Facilities:

83	Activator No	o. 2	Main	Burner	PM_{10}
86	Activator No	o. 3	Main	Burner	PM_{10}
146	Activator No	o. 4	Main	Burner	PM_{10}
170	Activator No	o. 5	Main	Burner	PM_{10}

AIR CONTAMINANTS DATA

Emission <u>*</u>	Source	Air Contaminant	<u>Emission Rates</u>
Point No. (1)	Name (2)	Name (3)	<u>lb/hr TPY</u>
1000	Activator No. 1 Mai		PM_{10}
1001	Activator No. 1 HEP	A Filter	PM_{10}
1002	Act. Nos. 2,3,4 HEP	A Filter	PM_{10}
1003	Activator No. 5 HEP	A Filter	PM_{10}
1004	Quench Station Vent	(5) PM_{10}	
1005	Raw Catalyst Chargi	ng Bldg.	PM_{10}
1006	Drum Unloading Encl	osure PM ₁₀	
1007	Catalyst Fugitives	$(4) \qquad PM_{10}$	

Polyethylene Plants:

206 208 209 210 212 213 214 217 218 219 252 254 255 257 258 261 302 304 305	PE6 Powder Ad PE6 Pellet Bl PE6 Pellet Si PE6 Pellet Bl PE6 Supply Si PE6 Loading B PE6 Extruder PE6 Pellet Lo PE6 Pellet Bl PE6 Pellet Bl PE6 Pellet Bl PE6 Pellet Bl PE6 Extruder PE7 Powder Ad PE7 Pellet Bl PE7 Pellet Bl PE7 Pellet Bl	end Tanks Tank los ender los sin Feed/Blender dout ditive Tank end Tanks Tank los ender Feed/Blender ditive Tank end Tanks	PM ₁₀	
305	PE7 Pellet Lo	adout		
311	PE7 Fluff Loa	ldout	PM_{10}	
312	PE7 Pellet Lo	ading	PM ₁₀	
313	PE7 Extruder	Feed/Blender	↑ PM ₁₀	
352	PE7 Powder Ad	lditive Tank	PM ₁₀	
354	PE7 Pellet Bl	end Tanks	PM ₁₀	
355	PE7 Extruder	Feed/Blender	∽ PM ₁₀	
402	PE8 Powder Ad	lditive Tank	PM_{10}	

AIR CONTAMINANTS DATA

Emission *	Source	Air	Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	N	lame (3)	lb/hr	TPY
404 405 411 412 413 452 454 455	PE8 Pellet Blend Ta PE8 Pellet Loadout PE8 Fluff Loadout PE8 Pellet Loading PE8 Extruder Feed/B PE8 Powder Additive PE8 Pellet Blend Ta PE8 Extruder Feed/B	lender Tank nks	PM ₁₀ PM ₁₀		
HAC Polypropyler	ne Plant:				
39A 39B 39C 39D 39E 52	Tank Farm Pellet Loading Spot Pellet Loading Spot Hopper Car Loading Bagging and Boxing Fluff Filter		PM ₁₀ PM ₁₀ PM ₁₀ PM ₁₀ PM ₁₀ PM ₁₀		
HAC Polypropyler	ne Plant (continued):				
53 701 702 704 716 719 729 736 739 750 751	Bagging House Train 1 Fluff Surge Train 2 Fluff Surge Train 4 Fluff Surge Train 1 Pure Add. House Train 1 Pellet Drye Train 2 Pellet Drye Trains 3,4 Pure Add Train 3 Pellet Drye Train 4 Pellet Drye Baghouse	Tank Tank opper r r . Hopp	PM_{10} PM_{10} PM_{10} PM_{10} PM_{10}	PM ₁₀	
GPH Polypropyler	ne Plant:				

Additive Vent Filter A PM₁₀

810A

Emission *	Source A	ir Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
810B	Additive Vent Filter I			
810C	Additive Vent Filter (- *		
810D	Additive Vent Filter [
810E	Additive Vent Filter I	E PM ₁₀		
810F	Additive Vent Filter I	F PM ₁₀		
810G	Additive Vent Filter ($G PM_{10}$		
811	Additive Pressure ELBI	F PM ₁₀		
812	Grizzley Vent Filter	PM_{10}		
813	Powder Feed Weigher Ve	ent Filter	PM_{10}	
816	Pellet Dryer Vent	PM_{10}		
817A	Pellet Silo A Filter	PM_{10}		
817B	Pellet Silo B Filter	PM_{10}		
817C	Pellet Silo C Filter	PM_{10}		
817D	Pellet Silo D Filter	PM_{10}		
818	Pellet Service Hopper	PM_{10}		
819A	Blender Silo A	PM_{10}		
819B	Blender Silo B	PM ₁₀		
820	Off Pellet Hopper	PM ₁₀		
821	B-Pellet Feed Hopper	PM_{10}		
822	Pellet Feed Hopper Fi		PM_{10}	
39D	S-E PP Hopper Car Load		PM ₁₀	
39E	PP Boxing and Bagging	PM ₁₀	10	
	Emission Cap	PM ₁₀	5.3	16.5

EMISSION SOURCES - EMISSION CAPS AND RATES

Emission *	Source	Air Contaminant	Emission Rat	<u>es</u>
Point No. (1)	Name (2)	Name (3)	lb/hr TPY	
VOC Sources:				
Flare System:				
216 308 408	Flare Flare Flare	VOC VOC VOC		
Hydrocarbon Load	ling/Unloading Facili	ty:		
900	Piping Fugitives (4) (6) VOC		
Polyethylene Cat	alyst Activation Fac	ilities:		
83 86 146 170 1000	Activator No. 2 Mai Activator No. 3 Mai Activator No. 4 Mai Activator No. 5 Mai Activator No. 1 Mai	n Burner n Burner n Burner	VOC VOC VOC VOC	
Polyethylene Pla	ints:			
201 207 208 209 210 212 213 217 219 250 253 254 255	PE6 Flash Tank PE6 Pellet Dryer PE6 Pellet Blend Ta PE6 Off-Spec Tank PE6 Pellet Silos PE6 Pellet Blender PE6 Supply Silos PE6 Extruder Feed/B PE6 Pellet Loadout PE6 Flash Tank PE6 Pellet Dryer PE6 Pellet Blend Ta PE6 Off-Spec Tank	VOC VOC VOC VOC Tender VOC VOC VOC	VOC	

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AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission Rates</u>
- Point No. (1)	Name (2)	Name (3)	1b/hr TPY
257 258 259 260 261 300 303 304 305 306	PE6 Pellet Silos PE6 Pellet Blender PE6 Piping Fugitive PE6 Cooling Tower (PE6 Extruder Feed/B PE7 Flash Tank PE7 Pellet Dryer PE7 Pellet Blend Ta PE7 Pellet Loadout PE7 Piping Fugitive	4) VOC lender VOC VOC nks VOC VOC	VOC
Polyethylene Pla	ants (continued):		
307 313 350 353	PE7 Cooling Tower (PE7 Extruder Feed/B PE7 Flash Tank PE7 Pellet Dryer	Tender VOC VOC	VOC
354 355 400 403 404 405 406 407	PE7 Pellet Blend Ta PE7 Extruder Feed/B PE8 Flash Tank PE8 Pellet Dryer PE8 Pellet Blend Ta PE8 Pellet Loadout PE8 Piping Fugitive PE8 Cooling Tower (lender VOC VOC nks VOC VOC s (4) VOC	VOC
413 450 453 454	PE8 Extruder Feed/B PE8 Flash Tank PE8 Pellet Dryer PE8 Pellet Blend Ta	lender VOC VOC nks VOC	VOC
455	PE8 Extruder Feed/B	lender	VOC

HAC Polypropylene Plant:

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
39A 39B 39C 39E 56 132 701 702 704 719 729 748 749 750 751	Tank Farm Pellet Loading Spot Pellet Loading Spot Bagging and Boxing Piping Fugitives (4) Cooling Tower (4) Train 1 Fluff Surge Train 2 Fluff Surge Train 4 Fluff Surge Train 1 Pellet Drye Train 2 Pellet Drye Train 4 Extruder Charain 4 Extruder Ver Train 4 Pellet Drye Baghouse	14 VOC VOC) VOC VOC Tank VOC Tank VOC Tank VOC r VOC r VOC ute VOC		
GPH Polypropyler	ne Plant:			
801 803 815 816 817A 817B	Piping Fugitives (4) Cooling Tower (4) Extruder Vent Pellet Dryer Vent Pellet Silo A Filte Pellet Silo B Filte	VOC VOC VOC r VOC		
GPH Polypropyler	ne Plant (continued):			
817C 817D 818 819A 819B 820 821	Pellet Silo C Filte Pellet Silo D Filte Pellet Service Hoppe Blender Silo A Blender Silo B Off Pellet Hopper B-Pellet Feed Hoppe	r VOC er VOC VOC VOC VOC		

Emission *	Source	Air Contaminant	<u>Emissi</u>	on Rates
- Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	<u>TPY</u>
822 39D 39E	Pellet Feed Hopper S-E PP Hopper Car L PP Boxing and Baggi		VOC	
	Emission Cap	VOC	300.7	925.2
<u>Hexene Sources:</u>				
Flare System:				
216 308 408	Flare Flare Flare	Hexene Hexene Hexene		
Hydrocarbon Load	ling/Unloading Facili	ty:		
900	Piping Fugitives (4) (6) Hexene		
Polyethylene Pla	ints:			
201 217 250 259	PE6 Flash Tank PE6 Extruder Feed/B PE6 Flash Tank PE6 Piping Fugitive	Hexene	Hexene	
261 300 306	PE6 Extruder Feed/B PE7 Flash Tank PE7 Piping Fugitive	Hexene	Hexene	
313 350	PE7 Extruder Feed/B PE7 Flash Tank		Hexene	
355 400 406	PE7 Extruder Feed/B PE8 Flash Tank PE8 Piping Fugitive	Hexene	Hexene	
413 450	PE8 Extruder Feed/B PE8 Flash Tank		Hexene	
455	PE8 Extruder Feed/B	lender	Hexene	

AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emissi</u>	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
	Emission Cap	Hexene	22.1	82.3
216, 308, 408, 83, 86, 146, 1000, 524, 5		V0C***	37.43	68.34

- (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_x total oxides of nitrogen
 - PM_{10} particulate matter less than 10 microns
 - VOC volatile organic compounds as defined in General Rule 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Emergency use only.
- (6) Isobutane, hexene, and n-hexane emissions only. Emissions of other materials at EPN 900 are covered in Permit No. 5662A.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/year<u>8,760</u>

- ** The PSD-TX-808 emissions are those CO flare emissions attributable to Polyethylene VI, VII, and VIII.
- *** These are the NO14 emissions only. The PE/PP off-gases are used as fuel gas in the combustion devices identified by EPN above. Other emissions associated with the listed combustion devices have either

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EMISSION SOURCES - EMISSION CAPS AND RATES

AIR CONTAMINANTS DATA

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

been included in the emission caps found in the maximum allowable emission caps or rates table of this permit (EPNs 216, 308, 408, 83, 86, 146, 170, and 1000) or are found in the maximum allowable emission rates table of Permit No. 5562A (EPNs 524 and 536) and/or Permit No. 7602A (EPNs 524 and 533).