EMISSION SOURCES - EMISSION CAPS AND RATES

Permit Nos. 4437A and 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.

		AIR CONTAMINANTS DATA		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
CO, NO_X Sources:				
Flare System **:				
216	Flare	CO, NO_x		
308	Flare	CO, NO_x		
408	Flare	CO, NO_x		
Polyethylene Catalyst Activation Facilities:				
83	Activator No. 2 Main Burner	CO, NO_x		
86	Activator No. 3 Main Burner	CO, NO_x		
146	Activator No. 4 Main Burner	CO, NO_x		
170	Activator No. 5 Main Burner	CO, NO_x		
1000	Activator No. 1 Main Burner	CO, NO_x		
1001	Activator No. 1 HEPA Filter	CO		
1003	Activator No. 5 HEPA Filter	CO		
	Emission Cap	**CO**	**165.9**	**482.5**
	Emission Cap	**NO_x**	**22.2**	**68.7**
PM_{10} 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}		
1001	Activator No. 1 HEPA Filter	PM_{10}		
1002	Act. Nos. 2,3,4 HEPA Filter	PM_{10}		
1003	Activator No. 5 HEPA Filter	PM_{10}		
1004	Quench Station Vent (5)	PM_{10}		

EMISSION SOURCES - EMISSION CAPS AND RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
Polyethylene Catalyst Activation Facilities (continued):				
1005	Raw Catalyst Charging Building	PM_{10}		
1006	Drum Unloading Enclosure	PM_{10}		
1007	Catalyst Fugitives (4)	PM_{10}		
Polyethylene Plants:				
206	PE6 Powder Additive Tank	PM_{10}		
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}		
213	PE6 Supply Silos	PM_{10}		
214	PE6 Loading Bin	PM_{10}		
217	PE6 Extruder Feed/Blender	PM_{10}		
218	PE6 Fluff Loadout	PM_{10}		
219	PE6 Pellet Loadout	PM_{10}		
252	PE6 Powder Additive Tank	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	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}		
312	PE7 Pellet Loading	PM_{10}		
313	PE7 Extruder Feed/Blender	PM_{10}		
352	PE7 Powder Additive Tank	PM_{10}		
354	PE7 Pellet Blend Tanks	PM_{10}		
355	PE7 Extruder Feed/Blender	PM_{10}		
402	PE8 Powder Additive Tank	PM_{10}		
404	PE8 Pellet Blend Tanks	PM_{10}		
405	PE8 Pellet Loadout	PM_{10}		
411	PE8 Fluff Loadout	PM_{10}		
412	PE8 Pellet Loading	PM_{10}		
413	PE8 Extruder Feed/Blender	PM_{10}		
Polyethylene Plants (continued):				

EMISSION SOURCES - EMISSION CAPS AND RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
452	PE8 Powder Additive Tank	PM_{10}		
454	PE8 Pellet Blend Tanks	PM_{10}		
455	PE8 Extruder Feed/Blender	PM_{10}		
HAC Polypropylene Plant:				
39A	Tank Farm	PM_{10}		
39B	Pellet Loading Spot 13	PM_{10}		
39C	Pellet Loading Spot 14	PM_{10}		
39D	Hopper Car Loading	PM_{10}		
39E	Bagging and Boxing	PM_{10}		
52	Fluff Filter	PM_{10}		
53	Bagging House	PM_{10}		
701	Train 1 Fluff Surge Tank	PM_{10}		
702	Train 2 Fluff Surge Tank	PM_{10}		
704	Train 4 Fluff Surge Tank	PM_{10}		
716	Train 1 Pure Additive Hopper	PM_{10}		
719	Train 1 Pellet Dryer	PM_{10}		
729	Train 2 Pellet Dryer	PM_{10}		
736	Trains 3,4 Pure Additive Hopper	PM_{10}		
739	Train 3 Pellet Dryer	PM_{10}		
750	Train 4 Pellet Dryer	PM_{10}		
751	Baghouse	PM_{10}		
GPH Polypropylene Plant:				
810A	Additive Vent Filter A	PM_{10}		
810B	Additive Vent Filter B	PM_{10}		
810C	Additive Vent Filter C	PM_{10}		
810D	Additive Vent Filter D	PM_{10}		
810E	Additive Vent Filter E	PM_{10}		
810F	Additive Vent Filter F	PM_{10}		
810G	Additive Vent Filter G	PM_{10}		
811	Additive Pressure ELBF	PM_{10}		
812	Grizzley Vent Filter	PM_{10}		
813	Powder Feed Weigher Vent Filter	PM_{10}		
816	Pellet Dryer Vent	PM_{10}		
GPH Polypropylene Plant (continued):				
817A	Pellet Silo A Filter	PM_{10}		

EMISSION SOURCES - EMISSION CAPS AND RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
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 Filter	PM_{10}		
39D	S-E PP Hopper Car Loading	PM_{10}		
39E	PP Boxing and Bagging	PM_{10}		
	Emission Cap	**PM_{10}**	**5.3**	**16.5**

VOC Sources:

Flare System:

216	Flare	VOC		
308	Flare	VOC		
408	Flare	VOC		

Hydrocarbon Loading/Unloading Facility:

900	Piping Fugitives (4) (6)	VOC		

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	PE6 Flash Tank	VOC		
207	PE6 Pellet Dryer	VOC		

EMISSION SOURCES - EMISSION CAPS AND RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
208	PE6 Pellet Blend Tanks	VOC		
209	PE6 Off-Spec Tank	VOC		
210	PE6 Pellet Silos	VOC		
212	PE6 Pellet Blender	VOC		
213	PE6 Supply Silos	VOC		
217	PE6 Extruder Feed/Blender	VOC		
219	PE6 Pellet Loadout	VOC		
250	PE6 Flash Tank	VOC		
253	PE6 Pellet Dryer	VOC		
254	PE6 Pellet Blend Tanks	VOC		
255	PE6 Off-Spec Tank	VOC		
257	PE6 Pellet Silos	VOC		
258	PE6 Pellet Blender	VOC		
259	PE6 Piping Fugitives (4)	VOC		
260	PE6 Cooling Tower (4)	VOC		
261	PE6 Extruder Feed/Blender	VOC		
300	PE7 Flash Tank	VOC		
303	PE7 Pellet Dryer	VOC		
304	PE7 Pellet Blend Tanks	VOC		
305	PE7 Pellet Loadout	VOC		
306	PE7 Piping Fugitives (4)	VOC		
307	PE7 Cooling Tower (4)	VOC		
313	PE7 Extruder Feed/Blender	VOC		
350	PE7 Flash Tank	VOC		
353	PE7 Pellet Dryer	VOC		
354	PE7 Pellet Blend Tanks	VOC		
355	PE7 Extruder Feed/Blender	VOC		
400	PE8 Flash Tank	VOC		
403	PE8 Pellet Dryer	VOC		
404	PE8 Pellet Blend Tanks	VOC		
405	PE8 Pellet Loadout	VOC		
406	PE8 Piping Fugitives (4)	VOC		
407	PE8 Cooling Tower (4)	VOC		
413	PE8 Extruder Feed/Blender	VOC		
450	PE8 Flash Tank	VOC		

Polyethylene Plants (continued):

EMISSION SOURCES - EMISSION CAPS AND RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
453	PE8 Pellet Dryer	VOC		
454	PE8 Pellet Blend Tanks	VOC		
455	PE8 Extruder Feed/Blender	VOC		
HAC Polypropylene Plant:				
39A	Tank Farm	VOC		
39B	Pellet Loading Spot 13	VOC		
39C	Pellet Loading Spot 14	VOC		
39E	Bagging and Boxing	VOC		
56	Piping Fugitives (4)	VOC		
132	Cooling Tower (4)	VOC		
701	Train 1 Fluff Surge Tank	VOC		
702	Train 2 Fluff Surge Tank	VOC		
704	Train 4 Fluff Surge Tank	VOC		
719	Train 1 Pellet Dryer	VOC		
729	Train 2 Pellet Dryer	VOC		
748	Train 4 Extruder Chute	VOC		
749	Train 4 Extruder Vent	VOC		
750	Train 4 Pellet Dryer	VOC		
751	Baghouse	VOC		
GPH Polypropylene Plant:				
801	Piping Fugitives (4)	VOC		
803	Cooling Tower (4)	VOC		
815	Extruder Vent	VOC		
816	Pellet Dryer Vent	VOC		
817A	Pellet Silo A Filter	VOC		
817B	Pellet Silo B Filter	VOC		
817C	Pellet Silo C Filter	VOC		
817D	Pellet Silo D Filter	VOC		
818	Pellet Service Hopper	VOC		
819A	Blender Silo A	VOC		
819B	Blender Silo B	VOC		

EMISSION SOURCES - EMISSION CAPS AND RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
820	Off Pellet Hopper	VOC		
821	B-Pellet Feed Hopper	VOC		
GPH Polypropylene Plant (continued):				
822	Pellet Feed Hopper	VOC		
39D	S-E PP Hopper Car Loading	VOC		
39E	PP Boxing and Bagging	VOC		
	Emission Cap	**VOC**	**300.7**	**925.2**
Hexene Sources:				
Flare System:				
216	Flare	Hexene		
308	Flare	Hexene		
408	Flare	Hexene		
Hydrocarbon Loading/Unloading Facility:				
900	Piping Fugitives (4) (6)	Hexene		
Polyethylene Plants:				
201	PE6 Flash Tank	Hexene		
217	PE6 Extruder Feed/Blender	Hexene		
250	PE6 Flash Tank	Hexene		
259	PE6 Piping Fugitives (4)	Hexene		
261	PE6 Extruder Feed/Blender	Hexene		
300	PE7 Flash Tank	Hexene		
306	PE7 Piping Fugitives (4)	Hexene		
313	PE7 Extruder Feed/Blender	Hexene		
350	PE7 Flash Tank	Hexene		
355	PE7 Extruder Feed/Blender	Hexene		
400	PE8 Flash Tank	Hexene		
406	PE8 Piping Fugitives (4)	Hexene		
413	PE8 Extruder Feed/Blender	Hexene		
450	PE8 Flash Tank	Hexene		

EMISSION SOURCES - EMISSION CAPS AND RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
455	PE8 Extruder Feed/Blender	Hexene		
	Emission Cap	**Hexene**	**22.1**	**82.3**
216, 308, 408	PE/PP Off-Gases	VOC***	38.73	117.56

(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 (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 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 8,760

** The PSD-TX-808 emissions are those CO flare emissions attributable to Polyethylene VI, VII, and VIII.

*** These are the N014 and 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.

EMISSION SOURCES - EMISSION CAPS AND RATES

AIR CONTAMINANTS DATA

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

Dated_____