Permit Numbers 18773 and PSD-TX-118M4

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. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit. (4/08)

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
Polyethylene Facility	<u>r</u> .			
700	Rxn and Ethylene Purification Fugitives (4) (8)	VOC	6.04	25.56
704	Analyzer Vent	VOC	0.22	0.96
705	Small Flare	CO NO _x VOC	52.86 17.08 48.34	70.31 22.71 62.49
707	Cycle Gas Compressor Seal and Oil Vent	d Lube \	VOC 0.48	0.11
708	Catalyst Transfer Tank Vent Filt	er PM VOC	0.01 0.57	0.01 0.17
709	Catalyst Transfer Tank Vent Filt	er PM VOC	0.01 0.57	0.01 0.17
710	G-3 Reactor Sed Bed Vent	Polyethylene Dust	8.13	0.20
712	Catalyst Vent Filter	PM VOC	0.04 0.006	0.01 0.003
715	Pneumatic Conveyor Vent Filter	PM	0.01	0.01
716-717	Additive Bin Vent Filters	PM	0.02	0.01
716FF	P3 Pelleter Preblender Receiver	Additive Dust	0.13	0.08

Emission		Air Contaminant		n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
717FF	P3 Pelleter Antiox Receiver	Additive Dust	0.13	0.08
718	Trim Receiver Vent Filter	PM	0.03	0.03
720	Pelleting System Dust Collector	PM	0.01	0.01
721	Pelleter Dryer Exhaust	РМ	0.95	3.11
720, 722-724	Storage and Blend Bin Vent Filte and Pelleting System Dust Collector	ers PM VOC	0.10 6.44	0.31 18.53
725	Pellet Loading Vent Filter	РМ	0.10	0.31
246	Large Flare	CO NO _x VOC	22.69 4.45 48.78	2.10 0.41 5.22
246	Large Flare Start-Up, Shutdown, and Maintenance	CO NO _x VOC	280.63 55.07 610.00	3.65 0.72 7.93
1239	Additive Hopper	PM_{10}	0.04	0.05
1240	Additive Hopper	PM_{10}	0.04	0.05
1241	Additive Hopper	PM_{10}	0.04	0.05
1242	Additive Hopper	PM_{10}	0.04	0.05
Ethylene Propylene Rubber Facility:				
1100	Flare before the Recycle Compressor Projects	CO H₂S	100.77 0.01	141.23 0.01

Emission	Source	Air Contaminant	Emissio	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
	is Complete (7)	NO_x	12.07	16.48
		SO_2	1.38	0.13
		VOC	105.61	137.73
	Flare after the Recycle	СО	92.98	90.96
	Compressor Project	H₂S	0.01	0.01
	is Complete	NO _x	11.16	10.61
	13 Complete	SO ₂	1.38	0.13
		VOC	98.66	92.81
		VOC	96.00	92.01
	Flare Natural Gas	CO	86.18	74.69
	Combustion (6)	NO_x	10.05	8.71
	` '	SO_2	0.50	0.43
		VOC	3.00	2.60
	Start-Up, Shutdown, Maintenand	ce CO	380.81	6.85
	before the Recycle	H_2S	0.01	0.01
	Compressor Project	NO_x	44.50	0.80
	is Complete (5) (7)	SO ₂	1.38	0.02
	(-) (-)	VOC	319.90	5.76
	Start-Up, Shutdown, Maintenand	ce CO	386.79	10.21
	after the Recycle	H_2S	0.01	0.01
	Compressor Project	NO_x	45.20	1.19
	is Complete (5)	SO_2	1.38	0.02
	, , ,	VOC	325.25	8.76
1102	Dust Collection Exhaust	PM	0.39	0.56
1105	Coord Filton	DM	0.07	0.07
1105	Guard Filter	PM	0.07	0.27
1107	Filter Exhaust	PM	0.01	0.01
1108	Catalytic Oxidizer Vent	СО	1.65	7.22
	Takany no Chianzon Vont	NO _x	4.23	16.61
		PM	0.03	0.11
		SO ₂	0.09	0.32
		VOC	6.13	20.13
		VOC	0.13	20.13

Emission	Source	Air Contaminant	<u>Emission</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
1109/1110	Product Blending Dust	PM	0.76	3.35
	Collectors	VOC	0.01	0.01
1111	Hopper Car Unloading Guard Filter	РМ	0.10	0.02
1112	Hopper Car Loading Filter	РМ	0.29	1.26
1113	Catalyst Surge Tank Filter	РМ	0.01	0.01
1115	Analyzer Vents	VOC	0.04	0.17
1116	Sample Vents	VOC	0.01	0.01
1120	Catalyst Deactivator Storage Tank	VOC	0.01	0.01
1122	Bagging Bldg. Bag Filter	PM	0.17	0.04
		VOC	0.01	0.01
1123	Purged Product Container 1	PM	0.01	0.01
1124	Purged Product Container 2	РМ	0.01	0.01
FUGS	Area Fugitives (4)	VOC	4.99	21.84
Olefins II Facility				
SD89	Fugitives - Product Ethylene (4) VOC	5.81	25.31

⁽¹⁾ Emission point identification - either specific equipment designation or emission point number from a plot plan.

⁽²⁾ Specific point source name. For fugitive sources use area name or fugitive source name.

⁽³⁾ VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1 CO - carbon monoxide

AIR CONTAMINANTS DATA

Emi	ssion	Source	Air Contaminant	Emission I	Rates *
Poir	nt No. (1)	Name (2)	Name (3)	lb/hr	TPY**
	NO _x - t	otal oxides of nitrogen	. ,		
	PM - p	oarticulate matter, suspended in t	he atmosphere, including PM	10	
	PM ₁₀ - particulate matter 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.				
		nydrogen sulfide	•		
	SO ₂ - 9	sulfur dioxide			
	HCI - h	nydrogen chloride			
(4)	Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the				ents of the
	applicable special conditions and permit application representations.				
(5)	Fugitive e	missions are an estimate only ar	nd should not be considered	as a maximun	n allowable
	emission i	ate.			
` '	 These hourly flare emissions represent worst-case scenarios from normal expected operations. Flare emissions from natural gas consumption during process start ups and while the unit is shutdown. 				
(8)) These emission rates are Interim emission rates and will expire two years after the date of the 2004 amendment approval.				
*	Emission schedule:	rates are based on and the faciliti	es are limited by the following	g maximum opo	erating
	Hrs/day _	24 Days/week 7 Weeks/ye	ear <u>52</u>		
**	Compliand	ce with annual emission limits is t	pased on a rolling 12-month p	eriod.	

Dated May 7, 2008