Permit No. 18773

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.

Emission *	Source	Air Contaminan	t <u>Emiss</u>	ion Rates
Point No. (1)	Name (2)	Name (3)1b/	<u>hr</u>	TPY
Polyethylene Fa	<u>acility</u> :			
700	Rxn and Ethylene Puri 25.46 Fugitives (4)	fication	VOC	5.82
703	Catalyst Preparation 0.13	Fugitives (4)	VOC	0.03
704	Analyzer Vent	VOC	0.22	0.96
705	Small Flare	VOC NO _x CO	69.46 9.73 49.57	107.63 14.93 128.05
707	Cycle Gas Compressor Oil Vent	Sea1/Lube VOC	0.11	0.48
708	Catalyst Transfer Tan Filter	ık Vent PM	0.27	<0.01
709	Catalyst Transfer Tan Filter	k Vent PM	0.27	<0.01
712	Catalyst Vent Filter	PM	0.09	<0.01
715	Pneumatic Conveyor Ve 0.04	nt Filter	PM	0.03
716-717	Additive Bin Vent Fil	ters PM	0.06	0.04

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
718	Trim Receiver Vent F	ilter PM	0.03	0.03	
720	Pelleting System Dus	t PM	<0.01	0.02	
721	Pelleter Dryer Exhau		0.95	3.11	
720, 722-724 Storage/Blend Bin Vent and Pelleting System 18.08			VOC	6.18	
	Collector	PM	0.10	0.31	
725	Pellet Loading Vent Filter 0.31		РМ	0.10	
246	Large Flare	VOC NO _x CO	32.71 3.33 16.95	8.45 0.62 3.17	
772	No. 3 Activator	PM VOC	0.03 159.87	0.01 10.03	
773	No. 3 Activator Blow Tank PM		0.02	<0.01	
Ethylene Propylene Rubber Facility:					
1100	Flare (5)	VOC (6) NO _x CO PM SO ₂ H ₂ S HC1 ammonia	44.40 4.80 40.40 0.01 1.38 <0.01 3.42 0.18	49.89 9.40 80.57 <0.01 0.13 <0.01 4.94 <0.01	
1101	Seal Pot	VOC	0.17	<0.01	

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission *	Source	Air Contaminant	<u>Emissior</u>	n Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
1102	Dust Collection Exhau	st PM	0.39	0.56
1105	Guard Filter	PM	0.07	0.27
1107	Filter Exhaust	РМ	<0.01	<0.01

Emission *	Source Ai	r Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
1108	Catalytic Oxidizer Vent	VOC (7) NO _x CO PM HC1	7.72 4.23 1.55 0.03 7.32	20.62 16.61 6.09 0.11 5.05
1109/1110	09/1110 Product Blending Dust Collectors <0.01		VOC	<0.01
	(0.01	PM	0.76	3.35
1111	Hopper Car Unloading Guard 0.02 Filter		РМ	0.10
1112	Hopper Car Loading Filter PM		0.29	1.26
1113	Catalyst Surge Tank Filter <0.01		РМ	<0.01
1116	Sample Vents	VOC	<0.01	<0.01
1117	Additive Feeder Filter	PM	<0.01	0.02
1120	Catalyst Deactivator Sto <0.01 Tank	orage	VOC	<0.01
1121	Portable Baghouse	VOC NO _x CO PM	0.27 1.84 1.42 0.07	1.17 8.07 6.24 0.02
1122	Bagging Bldg. Bag Filte	r VOC PM	<0.01 0.17	<0.01 0.04

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates	
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
1123	Purged Product Conta <0.01	iner 1	PM	<0.01	
1124	Purged Product Conta <0.01	iner 2	PM	<0.01	
FUGS	Area Fugitives (4)	VOC (8) ammonia	6.14 0.01	26.94 0.06	
Olefins II Facil	ity				
SD89	Fugitives - Product 71.41	Ethylene (4)	VOC	16.31	
 (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) VOC - volatile organic compounds as defined in General Rule 101.1 NOx - total oxides of nitrogen CO - carbon monoxide PM - particulate matter SO2 - sulfur dioxide H₂S - hydrogen sulfide HCl - hydrogen chloride 					

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) These hourly flare emissions represent worst-case scenarios from normal expected operations. A sequence of events involving reactor shutdown, purging, and restart is expected to occur 12 times per year with duration of 1.8 hours per occurrence, affecting VOC, NO_x , and CO emissions. Resultant total short-term flare emissions in lb/hr during these events will not exceed: VOC 319.9; $NO_x 44.5$; and CO 380.8.

AIR CONTAMINANTS DATA

Dated ___

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
Annual emissions as shown include these events. (6) Can contain up to 0.2 TPY methanol. (7) Can contain up to 11.56 TPY methanol. (8) Can contain up to 3.16 TPY methanol. * Emission rates are based on and the facilities are limited by the following maximum operating schedule:					
Hrs/day_ Hrs/year8,760		Weeks/year	·	or	