

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 1567

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.

AIR CONTAMINANTS DATA

<u>Emission</u> *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3) lb/hr</u>		<u>TPY</u>
A-226	Silica Preheater	PM	0.01	0.021
A-227	No. 1 Activator	PM	0.01	0.014
		VOC	72.00	9.920
A-228	No. 1 Activator Blow Tank	PM	0.04	0.006
A-229	Filter, Bins 1-5	PM	0.14	0.040
A-230	G-5 Blender Blow Tank	PM	0.12	0.017
A-231	Filter, Bins 11-15	PM	0.09	0.013
A-232	Filter, Bins 16-20	PM	0.13	0.015
A-233	G5 Cat. Feed Vent	PM	0.01	0.004
A-245	Y-System Baghouse Vent	PM	1.20	1.50
246	Large Flare	VOC	122.39	68.64
		NO _x	1.69(5)	7.42
		CO	8.64(5)	37.83
A-248	G5 Gas Compressor Seal Oil Vent		VOC	0.20
			0.88	
A-249	Analyzer Vents	VOC	0.32	1.36
A-401	X-1 Transfer System	PM	1.25	1.75
A-402	X-2 Transfer System	PM	1.25	1.75
A-403	X-3 Transfer System	PM	1.50	1.00

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
A-404	X-5 Transfer System	PM	2.00	6.50
A-409	Blending Bins Baghouse	PM	7.20	2.88
A-540	Master Batch System Vent	PM	0.35	0.10
A-615	X-6 Transfer System Baghouse	PM	1.25	1.75
1005	G-5 Product Purge Bin Rotary Feeder Vent	PM	0.04	0.18
A-1029	Resin Seed Bed Vent (8)	PM	---	---

GROUP A SILOS

A-234	Silo 101 Baghouse	PM	0.30(6)	1.10(7)
A-235	Silo 102 Baghouse	VOC	5.80(6)	11.20(7)
A-236	Silo 103 Baghouse			
A-237	Silo 104 Baghouse			
A-238	Silo 105 Baghouse			
A-239	Silo 106 Baghouse			
A-240	Silo 107 Baghouse			
A-241	Silo 201 Baghouse			
A-242	Silo 202 Baghouse			
A-243	Silo 203 Baghouse			
A-244	Silo 204 Baghouse			
A-399	Silo 205 Baghouse			
A-400	Silo 206 Baghouse			
A-387	Silo 401 Baghouse			
A-388	Silo 402 Baghouse			
A-389	Silo 403 Baghouse			
A-390	Silo 404 Baghouse			
A-391	Silo 405 Baghouse			
A-392	Silo 406 Baghouse			

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			lb/hr	TPY
<u>GROUP B - SILOS</u>				
A-393	Silo 301 Baghouse	PM	0.13(6)	0.10(7)
A-394	Silo 302 Baghouse			
A-396	Silo 304 Baghouse			
A-397	Silo 305 Baghouse			
<u>GROUP C -SILOS</u>				
A-395	Silo 303 Baghouse	PM	0.60(6)	0.01(7)
A-398	Silo 306 Baghouse	VOC	5.80(6)	0.06(7)
<u>GROUP D - BLENDING BINS</u>				
A-405	North Blending Bin	PM	0.80(6)	0.42(7)
A-406	South Blending Bin			
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Feed Streams	Fugitives (4) (ethylene, butene, hexene, and isopentane)	VOC	7.69	33.66
Reactor Area	Fugitives (4)	VOC	5.87	25.71
<u>CATALYST EXPANSION/ISOPENTANE RECOVERY - 1995</u>				
1125	No. 4 Activator Vent Filter	PM	<0.01	0.02
1126	No. 4 Activator Blow Tank Vent Filter	PM	<0.01	0.01

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			lb/hr	TPY
1127	G2 Blender Blow Tank Vent Filter 0.01		PM	<0.01
1128	G4 Blender Blow Tank Vent Filter 0.01		PM	<0.01
1129	Catalyst Expansion Area Fugitives (4)	VOC	1.05	4.59
705	Small Flare	VOC	28.81	7.76
		NO _x	3.08	0.94
		CO	26.44	8.02
530	THF Tank Vent	VOC	22.06	0.07
535	Bin 7117 Vent Filter	PM	<0.01	0.01
535L	Bin 7117 Cylinder Loading Filter	PM	<0.01	0.01

- (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) PM - particulate matter
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Average annual pounds per hour emission for large flare.
- (6) Maximum hourly emission rate from any one emission point listed within a group.
- (7) Maximum annual emission rate for the group of listed emission points.
(The sum of all emission point rates within a group.)
- (8) This EPN associated with reactor start-up only.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day _____ Days/week _____ Weeks/year _____ or Hrs/year 8,760

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

Dated_____