#### 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.

Emission	Source Ai	r Contaminant		<u>Emission</u>
Rates * Point No. (1)	Name (2)	Name (3)1b/hr	1	TPY
A-226	Silica Preheater	PM	0.01	0.02
A-227	No. 1 Activator	PM 72.00	0.01 9.92	0.01
A-228	No. 1 Activator Blow Ta	nk	РМ	0.04
A-229	Filter, Bins 1 through 0.04	5	PM	0.14
A-230	G-5 Blender Blow Tank	PM	0.12	0.02
A-231	Filter, Bins 11 through 0.01	15	PM	0.09
A-232	Filter, Bins 16 through 0.02	20	PM	0.13
A-233	G5 Catalyst Feed Vent	PM	0.01	<0.01
A-245	Y-System Baghouse Vent	PM	0.10	0.19
246	Large Flare NO <sub>X</sub> CO	VOC 1.90 (5) 9.69 (5)	126.73 7.43 37.84	68.66
A-248	G5 Gas Compressor Seal Oil Vent	VOC	0.20	0.88

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emissi</u>	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hrT	PY
A-249	Analyzer Vents	VOC	0.32	1.36
A-401, A-402, A-404, A-615	X-1, X-2, X-5, and Transfer Systems	X-6 PM	0.29	0.69 (7)
A-403 A-409	X-3 Transfer System Blending Bins Bagho		0.10 7.20	0.19 2.70
A-540	Master Batch System	Vent <0.01	РМ	0.02
1005	G-5 Product Purge B Rotary Feeder Ven		0.04	0.18
A-1029	Resin Seed Bed Vent	(8)	PM	
SILOS				
A-234 A-235 A-236 A-237 A-238 A-239 A-240 A-241 A-242 A-243 A-244 A-399 A-400 A-387 A-388 A-389 A-390 A-391 A-392	Silo 101 Baghouse Silo 102 Baghouse Silo 103 Baghouse Silo 104 Baghouse Silo 105 Baghouse Silo 106 Baghouse Silo 201 Baghouse Silo 201 Baghouse Silo 202 Baghouse Silo 203 Baghouse Silo 204 Baghouse Silo 205 Baghouse Silo 206 Baghouse Silo 401 Baghouse Silo 401 Baghouse Silo 402 Baghouse Silo 403 Baghouse Silo 404 Baghouse Silo 405 Baghouse Silo 406 Baghouse			

Emission *	Source	Air Contaminant	<u>Emission Rates</u>
Point No. (1)	Name (2)	Name (3)	lb/hrTPY
A-393 A-394 A-395 A-396 A-397 A-398	Silo 301 Baghouse Silo 302 Baghouse Silo 303 Baghouse Silo 304 Baghouse Silo 305 Baghouse Silo 306 Baghouse		
<ul><li>(7)</li><li>(7)</li></ul>	Total Silos	PM VOC	0.15 (6)0. <del>6</del> 9 6.61 (6)11.37

Emission *	Source	Air Contaminant	<u>Emissi</u>	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hrT	PY
BLENDING BINS				
A-405 A-406	North Blending Bin South Blending Bi	n		
(7)	Total EPNs A-405 and A-406	PM	0.90 (6	5)0.49
Feed Streams	Fugitives (4) (ethylene, butene and isopentane)	VOC , hexene,	7.69	33.66
Reactor Area	Fugitives (4)	VOC	5.87	25.71
CATALYST EXPANSION	I/ISOPENTANE RECOVERY			
1125	No. 4 Activator Ven	t Filter	PM	<0.01
1126	No. 4 Activator Blow 0.01 Vent Filter	w Tank	РМ	<0.01
1127	G2 Blender Blow Tan Vent Filter	k PM	<0.01	0.01
1128	G4 Blender Blow Tan Vent Filter	k PM	<0.01	0.01
1129	Catalyst Expansion Area Fugitives (4)	VOC )	1.05	4.59
705	Small Flare	VOC	17.41	5.03

Permit No. 1567 Page 5

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emissi</u>	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hrl	TPY
		NO <sub>x</sub> CO	8.15 12.46	3.01 4.60
530	THF Tank Vent	VOC	22.06	0.53
535	Bin 7117 Vent Filte	r PM	<0.01	0.01
535L	Bin 7117 Cylinder Loading Filter	PM	<0.01	0.01
1044 (9)	South Ethylene Siev	e Vent	VOC	<6.00
1045 (9)	West Ethylene Sieve	Vent	VOC	<6.00
	Total EPNs 1044 and	1045	VOC	1.35
1046 (9)	Isopentane Sieves C 0.94 Vent	ombined	VOC	<6.00
1047 (9)	Butene Sieves Combi Vent	ned VOC	<6.00	2.56
1048 (9)	Hexene Sieves Combi Vent	ned VOC	<6.00	0.84
UCAT-J FACILITY				
705	Small Flare	VOC NO <sub>X</sub> CO	0.82 0.39 0.59	0.37 0.17 0.27
1150	Silica Charge Pot F <0.01	ilter	РМ	<0.01

Emission *	Source	Air Contaminant	<u>Emissic</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hrTF	ΡΥ
1151	Magnesium Chloride Charge Pot Filter	РМ	<0.01	<0.01
1152A	Product Cylinder Ven	t VOC	<0.01	<0.01
1152B	Product Cylinder Ven	t VOC	<0.01	<0.01
1154	Mineral Oil Tank Ven	t VOC	<0.01	<0.01
1155	Fugitives (4)	Inorganic VOC	<0.01 0.52	0.02 2.24
1156A	Fugitives (4)-Silica Truck No. 1	PM	<0.01	<0.01
1156B	Fugitives (4)-Silica Truck No. 2	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 total annual emission rate for the group of listed emission points.

Dated

Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hrTPY	
<ul> <li>(8) This EPN is associated with reactor start-up only.</li> <li>(9) These activities and associated emissions were first authorized by Standard Exemption Registration No. 30100 on September 1, 1995, and are now authorized by Permit No. 1567.</li> <li>* Emission rates are based on and the facilities are limited by the</li> </ul>				
	num operating schedu			
Hrs/day <u> </u>	Days/week	Weeks/year	or Hrs/year	