#### Permit Numbers 1567 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.

Emission	Source	Air Contaminant <u>Emission Rates *</u>		Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
233	G5 Catalyst Feed Vent	PM VOC	0.01 0.31	0.01 1.36
245	Y-System Baghouse Vent	PM	0.10	0.19
246	Large Flare	VOC NO <sub>x</sub> CO <b>(PSD)</b> SO <sub>2</sub>	210.30 29.75 151.57 0.40	65.79 18.26 93.06 0.50
246	Large Flare (Start-Up, Shutdown, and Maintenance	VOC ) NO <sub>x</sub> CO	507.88 46.31 235.99	2.93 0.27 1.38
248	G5 Gas Compressor Seal Oil Vent	VOC	0.27	1.16
249	Analyzer Vents	VOC	0.32	1.37
401, 402, 404, and 615	X-1, X-2, X-5, and X-6 Transfer Systems	РМ	0.29	0.79 (7)
403	X-3 Transfer System	PM	0.10	0.19
409	Blending Bins Baghouse	PM	7.20	2.70
540	Master Batch System Vent	PM	0.02	0.01
1005	G-5 Product Purge Bin Rotary Feeder Vent	PM	0.02	0.08

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1) Name (2)		Name (3)	lb/hr	TPY**
1029	Resin Seed Bed Vent (8)	РМ	8.13	0.13
SILOS				
234 H 235 H 236 H 237 H 238 H 239 H 240 H 241 H 242 H 244 H 399 H 400 H 387 H 388 H 389 H 390 H 391 H 392 H 393 H 394 H 395 H 396 H 397 H	Silo 101 Baghouse Silo 102 Baghouse Silo 103 Baghouse Silo 104 Baghouse Silo 105 Baghouse Silo 106 Baghouse Silo 107 Baghouse Silo 201 Baghouse Silo 202 Baghouse Silo 203 Baghouse Silo 204 Baghouse Silo 205 Baghouse Silo 206 Baghouse Silo 401 Baghouse Silo 402 Baghouse Silo 403 Baghouse Silo 404 Baghouse Silo 405 Baghouse Silo 405 Baghouse Silo 301 Baghouse Silo 301 Baghouse Silo 302 Baghouse Silo 303 Baghouse Silo 304 Baghouse Silo 305 Baghouse			
398 H	Silo 306 Baghouse Total Silos	PM	0.21 (6)	0.70 (7)
	า บเสา 31105	VOC	0.21 (6) 7.03 (6)	0.79 (7) 11.46 (7)
1081	Block 12 North Catalyst	VOC	5.87	0.85

Emission	Source	Air Contaminant	Contaminant <u>Emission Rates *</u>			
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**		
	Wash Pot					
1082	Block 12 Middle Catalyst Wash Pot	VOC	5.87	0.85		
1083	Block 12 South Catalyst Wash Pot	VOC	5.87	0.85		
1084	Block 25 Precursor Wash Pot	VOC	5.87	1.45		
1085	Block 25 G-2/G-4 Blender Wash Pot	VOC	5.87	1.45		
BLENDING BINS						
405	North Blending Bin					
406	South Blending Bin					
Total EPNs 405 and 406		РМ	0.90 (6)	0.49 (7)		
766-3	Feed Stream Fugitives (4)	VOC	8.57	37.58		
766-7	Reactor Fugitives (4)	VOC	5.77	25.28		
CATALYST EXPANSION/ISOPENTANE RECOVERY						
1125	No. 4 Activator Vent Filter	РМ	0.01	0.02		
1126	No. 4 Activator Blow Tank Vent Filter	РМ	0.01	0.01		
1127	G2 Blender Blow Tank Vent Filter	PM VOC	0.01 0.10	0.01 0.45		
1128	G4 Blender Blow Tank Vent Filter	PM VOC	0.01 0.10	0.01 0.45		

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
1129	Catalyst Expansion Area Fugitives (4) (9)	VOC	1.16	5.09
705	Small Flare (10)	VOC NO <sub>x</sub> CO <b>(PSD)</b>	17.47 8.17 12.52	5.06 3.02 4.63
530	THF Tank Vent	VOC	22.06	0.53
535	Bin 7117 Vent Filter	PM Chromium Metal VOC	0.01 0.01 0.10	0.01 0.01 0.45
535L	Bin 7117 Cylinder Loading Filter	PM Chromium Metal VOC	0.01 0.01 0.04	0.01 0.01 0.18
1044	South Ethylene Sieve Vent	VOC	6.00	
1045	West Ethylene Sieve Vent	VOC	6.00	
Total EPNs 1044 and 1045		VOC	1.62	
1046	Isopentane Sieves Combined Vent	I VOC	6.0	0.94
1047	Butene Sieves Combined Vent	VOC	6.0	3.95
1048	Hexene Sieves Combined Vent	VOC	6.0	0.75
1007	Catalyst Bin 31 Loading	PM VOC	0.02 0.71	0.09 3.09
1009	Catalyst Cylinder Loading	PM	0.01	0.01

Emission	Source	Air Contaminant	Emission	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	TPY**	
		VOC	0.02	0.07	
UCAT-J FACILITY					
705	Small Flare (10)	VOC NO <sub>x</sub> CO	2.39 1.13 1.72	0.79 0.38 0.57	
1150	Silica Charge Pot Filter	РМ	0.01	0.02	
1151	Magnesium Chloride Charge Pot Filter	PM	0.01	0.01	
1152A	Product Cylinder Vent	VOC	0.01	0.01	
1152B	Product Cylinder Vent	VOC	0.01	0.01	
1154	Mineral Oil Tank Vent	VOC	0.01	.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	
1158A	THF Filters	VOC	0.07	0.01	
1158B	THF Filters	VOC	0.07	0.01	
1159A	THF Filters	VOC	0.07	0.01	
1159B	THF Filters	VOC	0.07	0.01	

# AIR CONTAMINANTS DATA

Dated January 24, 2005

Emis	ssion	Source	Air Contaminant	Emission R	<u>ates *</u>	
Poin	t No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
(4)						
(1)	from a plo	t plan.	er specific equipment designation	·		
(2)			names. For fugitive sources use area name or fugitive source name.			
(3)		•	nded in the atmosphere, including l			
	list	ed, it shall be assumed the	to or less than 10 microns in dia at no particulate matter greater tha	in 10 microns is $\epsilon$	emitted.	
		•	ds as defined in Title 30 Texas Adr	ninistrative Code	§ 101.1	
		total oxides of nitrogen				
		carbon monoxide				
(4)	_	sulfur dioxide		d	ملطمين مالم	
(4)	-	missions are an estimate	only and should not be considere	u as a maximum	i allowable	
	ssion rate.					
(5) (6)	[reserved]		any one emission point listed with	nin a group		
(0) (7)						
(8)		is associated with reactor	<b>.</b> .	Julius.		
(9)			d through Permit by Rule Registra	ation Number 44	1680 This	
(5)		rule has not been voided.	a through remit by raile registre	Allon Number 44	-000. Till3	
(10)	Compliance with allowable emissions for EPN 705 may be demonstrated by monitoring the combined stream to the flare for UCAT-J Facility and Catalyst Expansion/Isopentane Recovery.					
* sche	Emission edule:	rates are based on and t	the facilities are limited by the foll	owing maximum	operating	
	Hrs/day	Days/weekWee	eks/yearor Hrs/year <u>8,760</u>	_		
**	Complian	ce with annual emission li	mits is based on a rolling 12-month	ı period.		