#### Permit Number 4757

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	<b>Emission</b>	Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
P-3 Polyol Unit					
F2303PV	P3 Alcohol Tank	VOC	<0.01	<0.01	
F2309PV	P3 DEOA Tank	VOC	<0.01	<0.01	
P2102APVA	P3 Intermediate Tank	VOC	0.17	0.01	
F2102APVB	P3 Intermediate Tank	VOC	0.17	0.01	
F2102BPVA	P3 Intermediate Tank	VOC	0.17	0.01	
F2102BPVB	P3 Intermediate Tank	VOC	0.17	0.01	
D2201MV	P3 Neutralizer	VOC	0.527	0.237	
F2209MV	P3 Slurry Tank	VOC	0.009	0.005	
F2206PV	P3 Filter Feed Tank	VOC	0.29	0.14	
F2203PV	P3 Impurity Absorber Tank	VOC	0.02	0.01	
F2204APV	P3 Flash Drum Feed Tank	VOC	0.46	0.11	
F2204BPV	P3 Flash Drum Feed Tank	VOC	0.46	0.11	
F2202V	P3 Off-Spec Product Storage Tank	VOC	<0.01	<0.01	
F2205PV	P3 Stabilizer Tank	VOC	<0.01	<0.01	
F2305APV	P3 Rundown Tank	VOC	<0.01	<0.01	

Emission	Source	Air Contaminant <u>Emis</u>		sion Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
F2305BPV	P3 Rundown Tank	VOC	<0.01	<0.01	
F2306APV	P3 Product Tank	VOC	<0.01	<0.01	
F2306BPV	P3 Product Tank	VOC	<0.01	<0.01	
F2306CPV	P3 Product Tank	VOC	<0.01	<0.01	
F2306DPV	P3 Product Tank	VOC	<0.01	<0.01	
F2306EPV	P3 Product Tank	VOC	<0.01	<0.01	
F2306FPV	P3 Product Tank	VOC	<0.01	<0.01	
F2306GPV	P3 Product Tank	VOC	<0.01	<0.01	
F2306HPV	P3 Product Tank	VOC	<0.01	<0.01	
P3LE	P3 Loading Emissions	VOC	<0.01	<0.01	
P3PUFE	P3 Process Unit Fugitive Emission	ns (4) VOC	0.04	0.26	
P3OSFE	P3 Oxide System Fugitive Emission 0.49	ons (4)	VOC	0.13	
F2207VSV	P3 Flash Drum Vacuum System	VOC	0.40**	1.07**	
D2101VSV	P3 Reactor Vacuum System	VOC	43.00**	24.90**	
D2101VSV	P3 Reactor Vacuum System (5)	VOC	<0.01***	<0.01***	
P3FL1	P3 Flare	VOC NO <sub>x</sub> CO	0.87*** 0.15 1.33***	0.51*** 0.13*** 1.11***	
P-4 Polyol Unit		CO	1.33	1.11	
F3303APV	P4 Alcohol Tank	VOC	<0.01	<0.01	

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
F3303BPV	P4 Alcohol Tank	VOC	<0.01	<0.01
F3303CPV	P4 Alcohol Tank	VOC	<0.01	<0.01
P3102APV	P4 Intermediate Tank	VOC	0.34	0.02
F3102BPV	P4 Intermediate Tank	VOC	0.34	0.02
F3102CPV	P4 Intermediate Tank	VOC	0.34	0.02
D3201MV	P4 Neutralizer	VOC	0.480	0.237
F3209MV	P4 Slurry Tank	VOC	0.016	0.008
F3206PV	P4 Filter Feed Tank	VOC	0.43	0.24
F3203PV	P4 Impurity Absorber Tank	VOC	0.02	0.01
F3204APV	P4 Flash Drum Feed Tank	VOC	0.15	0.12
F3204BPV	P4 Flash Drum Feed Tank	VOC	0.15	0.12
F3205PV	P4 Stabilizer Tank	VOC	<0.01	<0.01
F3305APV	P4 Rundown Tank	VOC	<0.01	<0.01
F3305BPV	P4 Rundown Tank	VOC	<0.01	<0.01
F3305CPV	P4 Rundown Tank	VOC	<0.01	<0.01
F3306APV	P4 Product Tank	VOC	<0.01	<0.01
F3306BPV	P4 Product Tank	VOC	<0.01	<0.01

# ${\tt EMISSION} \ {\tt SOURCES} \ {\tt -MAXIMUM} \ {\tt ALLOWABLE} \ {\tt EMISSION} \ {\tt RATES}$

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
F3306CPV	P4 Product Tank	VOC	<0.01	<0.01
F3306DPV	P4 Product Tank	VOC	<0.01	<0.01
F3306EPV	P4 Product Tank	VOC	<0.01	<0.01
F3306FPV	P4 Product Tank	VOC	<0.01	<0.01
P4LE	P4 Loading Emissions	VOC	<0.01	<0.01
P4PUFE	P4 Process Unit Fugitive Emission	ns (4) VOC	0.04	0.27
P4OSFE 0.49	P4 Oxide System Fugitive Emission	ons (4)	VOC	0.13
D3101VSV	P4 Reactor Vacuum System (5)	VOC	<0.01	<0.01
P4FL1	P4 Flare	VOC NO <sub>x</sub> CO	0.87 0.15 1.33	0.58 0.15 1.28
P-5 Polyol Unit				
F4303APV	P5 Alcohol Tank	VOC	<0.01	<0.01
F4303BPV	P5 Alcohol Tank	VOC	<0.01	<0.01
F4303CPV	P5 Alcohol Tank	VOC	<0.01	<0.01
P4102APV	P5 Intermediate Tank	VOC	0.34	0.02
F4102BPV	P5 Intermediate Tank	VOC	0.34	0.02
F4102CPV	P5 Intermediate Tank	VOC	0.34	0.02

Emission	Source	Air Contaminant <u>Emission R</u>		Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
D4201MV	P5 Neutralizer	VOC	0.480	0.237
F4209MV	P5 Slurry Tank	VOC	0.016	0.008
F4206PV	P5 Filter Feed Tank	VOC	0.43	0.24
F4203PV	P5 Impurity Absorber Tank	VOC	0.02	0.01
F4204APV	P5 Flash Drum Feed Tank	VOC	0.15	0.12
F4204BPV	P5 Flash Drum Feed Tank	VOC	0.15	0.12
F4205PV	P5 Stabilizer Tank	VOC	<0.01	<0.01
F4305APV	P5 Rundown Tank	VOC	<0.01	<0.01
F4305BPV	P5 Rundown Tank	VOC	<0.01	<0.01
F4305CPV	P5 Rundown Tank	VOC	<0.01	<0.01
F4306APV	P5 Product Tank	VOC	<0.01	<0.01
F4306BPV	P5 Product Tank	VOC	<0.01	<0.01
F4306CPV	P5 Product Tank	VOC	<0.01	<0.01
F4306DPV	P5 Product Tank	VOC	<0.01	<0.01
F4306EPV	P5 Product Tank	VOC	<0.01	<0.01
F4306FPV	P5 Product Tank	VOC	<0.01	<0.01
P5LE	P5 Loading Emissions	VOC	<0.01	<0.01
P5PUFE	P5 Process Unit Fugitive Emission	s (4) VOC	0.04	0.27

Emission	Source	Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
P5OSFE	P5 Oxide System Fugitive Emissio 0.49	ns (4)	VOC	0.13	
D4101VSV	P5 Reactor Vacuum System (5)	VOC	<0.01	<0.01	
P5FL1	P5 Flare	VOC NO <sub>x</sub> CO	0.87 0.15 1.33	0.58 0.15 1.28	
Blending Facility					
F1306QPV	Chemical Blending Polyol Storage <0.01	Tank	VOC	<0.01	
F1306RPV	Chemical Blending Oil Storage Tai	nk VOC	0.13	0.02	
F1306SPV	Chemical Blending MDI Storage T	ank VOC	<0.01	<0.01	
F1306TPV	Chemical Blending MDI Storage T	ank VOC	<0.01	<0.01	
F1306UV	Chemical Blending MPDA Storage <0.01	Tank	VOC	<0.01	
F1308VRV	Chemical Blending Polyol Storage <0.01	Tank	VOC	<0.01	
TK1BMV	Packaging B-Side Blend Tank	VOC	0.11	0.01	
TK2BMV	Packaging B-Side Blend Tank	VOC	0.42	0.12	
TK3BMV	Chemical Sales Blend Tank	VOC	0.13	0.02	
TK4AMV	Packaging A-Side Blend Tank	VOC	<0.01	<0.01	

# ${\tt EMISSION} \ {\tt SOURCES} \ {\tt -MAXIMUM} \ {\tt ALLOWABLE} \ {\tt EMISSION} \ {\tt RATES}$

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
TK8BMV	Flexible System B-Side Blend Tank	VOC	0.01	<0.01
TK8BCV	Flexible System B-Side Blend Tank	VOC	0.08	0.01
TK9BMV	Rigid System B-Side Blend Tank	VOC	0.01	<0.01
TK9BCV	Rigid System B-Side Blend Tank	VOC	0.19	<0.05
TK5AMV	Chemical Blending TDI Storage Tai	nk VOC	0.02	<0.01
F1308APV	Chemical Blending Polyol Storage < 0.01	Гank	VOC	<0.01
F1308BPV	Chemical Blending Polyol Storage < 0.01	Γank	VOC	<0.01
F1308CPV	Tirefill A-Side Storage	VOC	0.11	0.01
F1308DPV	Chemical Blending Polyol Storage < 0.01	Γank	VOC	<0.01
F1308EPV	Chemical Blending Polyol Storage < 0.01	Γank	VOC	<0.01
F1308FPV	Chemical Blending Polyol Storage < 0.01	Гаnk	VOC	<0.01
F1308GPV	Chemical Blending Polyol Storage < 0.01	Гank	VOC	<0.01
F1308HPV	Tirefill B-Side Storage Tank	VOC	0.11	0.01
F1308JPV	Tirefill A-Side Storage Tank	VOC	0.11	0.01
F1308KPV	Chemical Blending Polyol Storage	Γank	VOC	<0.01

Emission	Source	Air Contaminant	<b>Emission</b>	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
	<0.01			
F1308LPV	Chemical Blending Polyol Storage <0.01	Tank	VOC	<0.01
F1308MPV	Chemical Blending Polyol Storage <0.01	Tank	VOC	<0.01
F1308NPV	Chemical Blending Polyol Storage <0.01	Tank	VOC	<0.01
F1308PPV	Chemical Blending Polyol Storage <0.01	Tank	VOC	<0.01
F1308QPV	Chemical Blending Polyol Storage <0.01	Tank	VOC	<0.01
F1308RPV	Chemical Blending Polyol Storage <0.01	Tank	VOC	<0.01
F1308SPV	Chemical Blending Polyol Storage <0.01	Tank	VOC	<0.01
F1308TPV	Chemical Blending Polyol Storage <0.01	Tank	VOC	<0.01
F1308UPV	Chemical Blending Polyol Storage <0.01	Tank	VOC	<0.01
TK6APV	Tirefill A-Side Blend Tank	VOC	0.13	0.01
TK7BPV	Tirefill B-Side Blend Tank	VOC	0.83	0.01
CBLE	Chemical Blending Loading Emiss	sions VOC	3.61	0.31

#### AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
CBFE	Chemical Blending Fugitive Emissi	ons VOC	0.08	0.35
(1) Emission point from plot pla	t identification -either specific equipn.	oment designation or e	missions poi	int number
<ul><li>(2) Specific point s</li><li>(3) VOC</li><li>in Title 30 Te</li></ul>	source name. For fugitive sources u - exas Administrative Code § 101.1	volatile organic o		
NO <sub>x</sub> CO	-	nitrogen oxide carbon monoxide		
	ions are an estimate only and shou e.			allowable
` '	n the P3 Reactor (after flare install steps that may not go to the flare.	ation), P4 Reactor and	P5 Reactor	represent
* Emission rates schedule:	are based on and the facilities ar	e limited by the following	ng maximum	operating
Hrs/dayDa	ays/weekWeeks/yearor Hi	rs/year <u>8,760</u>		
must be comp	n the P3 Reactor and flash drum valeted no later than the start-up of F n Emission Point No. F2207VSV will	25 but no later than No		

\*\*\* Emissions from the P3 Reactor vacuum system and flare after flare installation which must be completed no later than the start-up of P5 but no later than November 1, 1999.

Dated <u>May 20, 2002</u>