

# EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

Flexible Permit Number 6618

This table lists the maximum allowable emission caps or 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

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
Q4501	Plant Flare	NO <sub>x</sub> , CO, SO <sub>2</sub>		
Q4502	Thermal Oxidizer	NO <sub>x</sub> , CO, SO <sub>2</sub>		
F-1, FUG-DF, F-CDNZ	Dryer F	NO <sub>x</sub> , CO, SO <sub>2</sub>		
G-1, FUG-DG, G-CDNZ	Dryer G	NO <sub>x</sub> , CO, SO <sub>2</sub>		
J1, J2, J3, J4, J5, J6, J7, J8, J9, FUG-DJ	Dryer J	NO <sub>x</sub> , CO, SO <sub>2</sub>		
K1, K2, K3, K4, K5, K6, K7, K8, K9, FUG-DK	Dryer K	NO <sub>x</sub> , CO, SO <sub>2</sub>		
L1, L2, L3, L4, L5, L6, L7, L8, L9, FUG-DL	Dryer L	NO <sub>x</sub> , CO, SO <sub>2</sub>		
M1, M2, M3, M4, M5, M6, M7, M8, M9, FUG-DM	Dryer M	NO <sub>x</sub> , CO, SO <sub>2</sub>		
P1, P2, P3, P4, P5, P6, P7, P8, P9, FUG-DP	Dryer P	NO <sub>x</sub> , CO, SO <sub>2</sub>		
Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, FUG-DQ	Dryer Q	NO <sub>x</sub> , CO, SO <sub>2</sub>		

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
	Emission Caps:	NO <sub>x</sub>	16.90	61.20
		CO	6.80	15.40
		SO <sub>2</sub>	1.60	7.10
	Planned MSS Emissions (6):	NO <sub>x</sub>	0.50	0.05
		CO	2.54	0.27
		SO <sub>2</sub>	0.01	0.01
Q4502	Thermal Oxidizer	PM		
F-1, F-7, FUG-DF, F-2A, F-2B, F-CDNZ	Dryer F	PM		
G-1, G-7, FUG-DG, G-2A, G-2B, G-CDNZ	Dryer G	PM		
J1, J2, J3, J4, J5, J6, J7, J8, J9, FUG-DJ	Dryer J	PM		
K1, K2, K3, K4, K5, K6, K7, K8, K9, FUG-DK	Dryer K	PM		
L1, L2, L3, L4, L5, L6, L7, L8, L9, FUG-DL	Dryer L	PM		
M1, M2, M3, M4, M5, M6, M7, M8, M9, FUG-DM	Dryer M	PM		
P1, P2, P3, P4, P5, P6, P7, P8,	Dryer P	PM		

P9, FUG-DP

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, FUG-DQ	Dryer Q	PM		
A5AF, FUG-ABRS, FUG-A5F, FUG-CU	Miscellaneous Sources	PM		
	Emission Cap	PM	14.70	47.60
	Planned MSS Emissions (6):	PM	0.13	0.01
F2000A	Storage Tank F2000A	NH <sub>3</sub>		
FUG E-849	Ammonia Chiller	NH <sub>3</sub>		
NH3FUGP2	P2 NH <sub>3</sub> Fugitives (4)	NH <sub>3</sub>		
NH3FUGP3	P3 NH <sub>3</sub> Fugitives (4)	NH <sub>3</sub>		
NH3FUGP5	P5 NH <sub>3</sub> Fugitives (4)	NH <sub>3</sub>		
RCTFUGC2	C-2 Polymer Area	NH <sub>3</sub>		
RCTFUGC3	C-3 Polymer Area	NH <sub>3</sub>		
T-5001, T-5002 T-5003, T5004	Cooling Towers	NH <sub>3</sub>		
	Emission Cap	NH <sub>3</sub>		39.5
F-1, F-7, FUG-DF, F-CDNZ, F-TRIAL	Dryer F	VOC		
G-1, G-7, FUG-DG, G-CDNZ	Dryer G	VOC		

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
J1, J2, J3, J4, J5, J6, J7, J8, J9, FUG-DJ	Dryer J	VOC		
K1, K2, K3, K4, K5, K6, K7, K8, K9, FUG-DK	Dryer K	VOC		
L1, L2, L3, L4, L5, L6, L7, L8, L9, FUG-DL	Dryer L	VOC		
M1, M2, M3, M4, M5, M6, M7, M8, M9, FUG-DM	Dryer M	VOC		
P1, P2, P3, P4, P5, P6, P7, P8, P9, FUG-DP	Dryer P	VOC		
Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, FUG-DQ	Dryer Q	VOC		
LC-VF	Latex COAG Line F	VOC		
FUG-LCG	Latex COAG Line G	VOC		
FUG-LCJ	C and D - A3, J Dryer	VOC		
FUG-LCK	C and D - A3, K Dryer	VOC		
FUG-LCL	C and D - A3, L Dryer	VOC		

FUG-LCM

C and D - A3, M Dryer

VOC

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
FUG-LCP	C and D - A6, P Dryer	VOC		
FUG-LCQ	C and D - A6, Q Dryer	VOC		
FUG-A2F	Packing and Shipping	VOC		
FUG-A3F	Packing and Shipping	VOC		
FUG-A6F	Packing and Shipping	VOC		
LTX-17	Seal Drum	VOC		
NLTXLDG	D8 Latex Loading	VOC		
ELTXULDG	Unloading	VOC		
Q4501	Plant Flare	VOC		
Q4502	Thermal Oxidizer	VOC		
FUG-B1A, FUG-B2, FUG-B3, RCTFUGC1A, RCTSAMPFUG, RCTFUGC2, RCTFUGC3, FUGJ1, FUGJ2, BIO-F, UNLDSM	VOC Fugitives (4)	VOC		
CLEAN-B1A, CLEAN-B2, CLEAN-B3, CLEAN-C1, CLEAN-C2, CLEAN-C3, CLEAN-D8, CLEAN-J1, CLEAN-J2	Vessel Cleaning	VOC		

F401T                      Latex Storage                      VOC

F402T                      Latex Storage                      VOC

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
F403T	Latex Storage	VOC		
F410N	Latex Storage	VOC		
F420N	Latex Storage	VOC		
F430N	Latex Storage	VOC		
F440N	Latex Storage	VOC		
F450N	Latex Storage	VOC		
F400N	Tanks	VOC		
F401N	Tanks	VOC		
F600A	Latex Storage	VOC		
F600B	Latex Storage	VOC		
F600C	Latex Storage	VOC		
F600D	Latex Storage	VOC		
F600E	Latex Storage	VOC		
F600F	Latex Storage	VOC		
F600G	Latex Storage	VOC		
F600H	Latex Storage	VOC		
F600J	Latex Storage	VOC		

F600K

Latex Storage

VOC

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
F600L	Latex Storage	VOC		
F600M	Latex Storage	VOC		
F600P	Latex Storage	VOC		
F600T	Latex Storage	VOC		
F600U	Latex Storage	VOC		
F600W	Latex Storage	VOC		
F600Q	Latex Storage	VOC		
F600R	Latex Storage	VOC		
F600X	Latex Storage	VOC		
F600V1	Latex Storage	VOC		
F600V2	Latex Storage	VOC		
F601	Latex Storage	VOC		
F601S	Latex Storage	VOC		
F602	Latex Blend Tank	VOC		
F602S	Latex Storage	VOC		
F603	Latex Blend Tank	VOC		
F603S	Latex Storage	VOC		

F604

Latex Blend Tank

VOC

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
F604S	Latex Storage	VOC		
F605	Latex Blend Tank	VOC		
F606	Latex Blend Tank	VOC		
F607	Latex Blend Tank	VOC		
F608	Latex Blend Tank	VOC		
F609	Latex Blend Tank	VOC		
F6010	Latex Blend Tank	VOC		
F6011	Latex Blend Tank	VOC		
F6012	Latex Blend Tank	VOC		
F801A	Primary Feed Latex A	VOC		
F801B	Utility Latex Tank	VOC		
F812	Conc. Latex Product	VOC		
F816	pH Adjustment	VOC		
F817	pH Adjustment	VOC		
F850A	Special Feed Latex	VOC		
F850B	Special Feed Latex	VOC		
F825A	Latex Interstage Surge	VOC		



F825B

Latex Interstage Surge

VOC

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
F825C	Latex Interstage Surge	VOC		
F825D	Latex Interstage Surge	VOC		
F852A	Conc. Latex Product	VOC		
F852B	Conc. Latex Product	VOC		
F852C	Conc. Latex Product	VOC		
F852D	Conc. Latex Product	VOC		
F852E	Conc. Latex Product	VOC		
F852F	Conc. Latex Product	VOC		
F851	Conc. Latex Tank	VOC		
F855A	Conc. Latex Product	VOC		
F855B	Conc. Latex Product	VOC		
F855C	Conc. Latex Product	VOC		
F855D	Conc. Latex Product	VOC		
F870	Conc. Latex Product	VOC		
F871	Conc. Latex Product	VOC		
FUGFUEL	Plant Fuel Transfers	VOC		
Insignificant Source List	285 Vessels	VOC		

F119 (mercaptan)                      Raw Material Storage                      VOC  
 F122 (mercaptan)                      Tanks  
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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
F131 (styrene) F132 (styrene) F133 (styrene) F134 (styrene) F243 (pinane hydroperoxide)				
F360KA, F364C, F364D, F364E, F364F, F410E, F410F, F824A, A4ADDSYFUG, A2ADDSYFUG, and A6ADDSYFUG	Change, Feed, or Makeup Tanks	VOC		
T-5001, T-5002 T-5003, and T-5004	Cooling Towers (4)	VOC		
L1A, L2A, L3A, L4A, L1B, and L2B L3B, L4B, FLOCBSN, LNDFILL, BIOLGN	Wastewater Treatment	VOC		
H2LBV, H4LBV, A1LAB1, A1LAB2, A1LAB3, A1LAB4, A1LAB5, A1LAB6, A1LAB7, LBS	Laboratory Vents	VOC		
G-DEGR, SP1-DEGR SP2-DEGR, N1-DEGR, REF-DEGR, P-DEGR, D8-DEGR, W5-DEGR, X2-DEGR, H-DEGR	Degreasers	VOC		

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
SUMP-A1, SUMP-A2, SUMP-A3, SUMP-A6, SUMP-B1, SUMP-B2, SUMP-B3, SUMP-D8, SUMP-D3	Water Separator	VOC		
	Emission Caps:	VOC (5)	684.600	432.80
		Butadiene	11.00	17.10
		Butenes	1.70	1.20
		Styrene	202.30	218.40
		CS <sub>2</sub>	5.50	23.90
	Planned MSS Emissions (6):	VOC (5)	11.86	4.05
		Butadiene	6.05	0.67
		Butenes	1.82	0.10
		Styrene	1.05	0.55
LC-VF, FUG-LCG, FUG-LCJ, FUG-LCK, FUG-LCL, FUG-LCM, FUG-LCP, FUG-LCQ	Crumb Rubber Finishing	H <sub>2</sub> SO <sub>4</sub>	0.01	0.05
T-5111, T-5112, T5113	Chlorine Fugitives (4)	Cl <sub>2</sub>	0.03	0.03

MSS EMISSIONS VENTED TO ATMOSPHERE

SUMP-A1, SUMP-A2 SUMP-A3, SUMP-A6, SUMP-B1, SUMP-B2, SUMP-B3, SUMP-D3 SUMP-D8, FUG-DW, FUG-DF, FUG-DG, FUG-DJ, FUG-DK,	Planned MSS Emissions (6)	VOC (5)	1.05	0.01
		Butadiene	0.01	0.01
		Styrene	1.00	0.05
		NO <sub>x</sub>	0.01	0.01
		CO	0.16	0.01
		PM	0.13	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	lb/hr
<u>TPY **</u>				
6618-MSS/MISC	Miscellaneous MSS Emissions (6) Butenes	VOC (5)	2.73	2.78
		Butadiene	0.02	0.02
		0.01	0.01	
		Styrene	0.04	0.05
		NO <sub>x</sub>	0.01	0.01
		CO	0.01	0.01
6618-MSS/DEGAS	Uncontrolled MSS Degassing Emissions (7)	VOC (5)	2.89	0.24
		Butadiene	0.46	0.04
		Butenes	0.14	0.01
		Styrene	2.29	0.19

(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) NO<sub>x</sub> - total oxides of nitrogen

CO - carbon monoxide

SO<sub>2</sub> - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>

PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

NH<sub>3</sub> - ammonia

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

CS<sub>2</sub> - carbon disulfide

H<sub>2</sub>SO<sub>4</sub> - sulfuric acid

Cl<sub>2</sub> - chlorine

(4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.

(5) VOC emissions include butadiene, butenes, styrene, and other organic compounds.

(6) MSS Emissions are included in the Emission Caps.

(7) Planned MSS Degassing Emissions venting to atmosphere after VOC concentration has been monitored and

measured as equal to or less than 10,000 ppmv as specified in Special Condition No. 13.

\* Emission rates are based on a continuous operating schedule: 8,760 hours/year.

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

\*\* Compliance with annual emission caps and annual individual emission limitations is based on a rolling 12-month period.

Dated July 3, 2008