

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

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P9, FUG-DP

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			lb/hr	TPY**
Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, FUG-DQ	Dryer Q	NO _x , CO, SO ₂		
	Emission Caps:	NO_x	16.4	61.2
		CO	4.0	15.4
		SO₂	1.6	7.1
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, P9, FUG-DP	Dryer P	PM		

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			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	14.7	47.6
F2000A	Storage Tank F2000A	NH ₃		
FUG E-849	Ammonia Chiller	NH ₃		
NH3FUGP2	P2 NH ₃ Fugitives	NH ₃		
NH3FUGP3	P3 NH ₃ Fugitives	NH ₃		
NH3FUGP5	P5 NH ₃ Fugitives	NH ₃		
RCTFUGC2	C-2 Polymer Area	NH ₃		
RCTFUGC3	C-3 Polymer Area	NH ₃		
T-5001, T-5002 T-5003, T-5004	Cooling Towers	NH ₃		
	Emission Cap	NH₃		71.5
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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			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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			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		

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			lb/hr	TPY**
F402T	Latex Storage	VOC		
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		

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
F600K	Latex Storage	VOC		
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		

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
F604	Latex Blend Tank	VOC		
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	

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			lb/hr	TPY**
F825B	Latex Interstage Surge		VOC	
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	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
F113, F114, F115	Recycle Styrene Storage Tanks		VOC	
F131, F132	Blend Styrene Storage Tanks		VOC	
F119 (mercaptan) F122 (mercaptan) F133 (styrene) F134 (styrene) F243 (pinane hydroperoxide)	Raw Material Storage Tanks		VOC	
F360KA, F364C, F364D, F364E, F364F, F410E, F410F, F824A, A4ADDSYFUG, A2ADDSYFUG, A6ADDSYFUG	Change, Feed, or Makeup Tanks		VOC	
T-5001, T-5002 T-5003, T-5004	Cooling Towers (4)	VOC		
L1A, L2A, L3A, L4A, L1B, L2B L3B, L4B, FLOCBSN, LNDFILL, BIOLGN	Wastewater Treatment	VOC		
H2LBV, H4LBV, A1LAB1, A1LAB2, A1LAB3, A1LAB4, A1LAB5, A1LAB6, A1LAB7, LBS	Laboratory Vents	VOC		

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			lb/hr	TPY**
G-DEGR, SP1-DEGR SP2-DEGR, N1-DEGR, REF-DEGR, P-DEGR, D8-DEGR, W5-DEGR, X2-DEGR	Degreasers	VOC		
	Emission Caps:	VOC	752.0	432.8
		Butadiene	13.3	22.7
		Styrene	269.4	291.2
		CS₂	5.5	23.9
S1, S2, S3, FUG-DS, FUG-LCS	S Dryer and Coagulation (5)	NO _x	1.80	6.70
		CO	0.31	1.38
		SO ₂	0.01	0.04
		PM	0.70	3.07
		VOC	0.32	1.38
		AN	1.92	2.72
		CS ₂	1.94	3.50
		MAA	8.46	2.20
T1, T2, T3, FUG-DT, FUG-LCT	T Dryer and Coagulation (5)	NO _x	1.80	6.70
		CO	0.31	1.38
		SO ₂	0.01	0.04
		PM	0.70	3.07
		VOC	0.32	1.38
		AN	1.92	2.72
		CS ₂	1.94	3.50
		MAA	8.46	2.20
F180	Raw Material Storage Tank (5)	MAA	0.13	0.01
A5BF1, A5BF2, A5BF3, A5BF4, A5BF5, A5BF5FUG	Miscellaneous Sources (Building A8 - rubber grinding) (5)	PM	2.0	8.86

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
RCTFUGC1	C-1 Polymer Area Fugitives (5)	NH ₃	1.94	8.50
		Styrene	0.22	0.30
		Butadiene	1.22	4.54
FUG-A4F	Packaging and Shipping (5)	Styrene	0.01	0.04
F365A	Charge, Feed, Makeup Tanks (5)	Styrene	<0.01	<0.01
FUG-B1	Monomer Recovery Area Fugitives (5)	Styrene	0.04	0.19
		Butadiene	0.47	2.11
F365B	Charge, Feed, Makeup Tanks (5)	Styrene	<0.01	<0.01
F365H	Charge, Feed, Makeup Tanks (5)	Styrene	<0.01	<0.01
FUG-LCS, FUG-LCT	Crumb Rubber Finishing (5)	H ₂ SO ₄	0.01	0.02
Insignificant Sources List 0.24		77 Vessels (5) VOC		0.05
CLEAN-B1	Losses During Vessel Cleaning (5)	Styrene	0.40	2.30
		Butadiene	0.04	0.17
LC-VF, FUG-LCG, FUG-LCJ, FUG-LCK, FUG-LCL, FUG-LCM, FUG-LCP, FUG-LCQ	Crumb Rubber Finishing	H ₂ SO ₄	0.01	0.05
T-5111, T-5111A,	Chlorine Fugitives (4)	Cl ₂		<0.03

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0.03

T-5115

- (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_x - total oxides of nitrogen
CO - carbon monoxide
SO₂ - sulfur dioxide
PM - particulate matter, suspended in the atmosphere, including PM₁₀
PM₁₀ - particulate matter equal to or less than 10 microns in

diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

NH₃ - ammonia

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

AN - acrylonitrile

MAA - methacrylic acid

CS₂ - carbon disulfide

H₂SO₄ - sulfuric acid

Cl₂ - chlorine

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) These sources were idled and the associated emissions were removed from the emissions caps by three permit alterations approved January 2002, May 2002, and February 2003.

* Emission rates are based on a continuous operating schedule (24 hours/day, 7 days/week, 52 weeks/year).

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

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Dated February 13, 2003