

EMISSION SOURCES - EMISSION CAPS AND RATES

Permit No. 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 *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3) lb/hr		TPY
Q4501	Plant Flare	NO _x , CO, SO ₂		
Q4502	Thermal Oxidizer	NO _x , CO, SO ₂		
F-1, FUG-DF	Dryer F	NO _x , CO, SO ₂		
G-1, FUG-DG,	Dryer G	NO _x , CO, SO ₂		
J1, J2, J3, J4,	Dryer J	NO _x , CO, SO ₂		
J5, J6, J7, J8,				
J9, FUG-DJ				
K1, K2, K3, K4,	Dryer K	NO _x , CO, SO ₂		
K5, K6, K7, K8,				
K9, FUG-DK				
L1, L2, L3, L4,	Dryer L	NO _x , CO, SO ₂		
L5, L6, L7, L8,				
L9, FUG-DL				
M1, M2, M3, M4,	Dryer M	NO _x , CO, SO ₂		
M5, M6, M7, M8,				
M9, FUG-DM				
P1, P2, P3, P4,	Dryer P	NO _x , CO, SO ₂		
P5, P6, P7, P8,				
P9, FUG-DP				
Q1, Q2, Q3, Q4,	Dryer Q	NO _x , CO, SO ₂		
Q5, Q6, Q7, Q8,				
Q9, FUG-DQ				
S1, S2, S3,	Dryer S	NO _x , CO, SO ₂		
FUG-DS				
T1, T2, T3,	Dryer T	NO _x , CO, SO ₂		
FUG-DT				
	Emission Cap	NO_x	20.3	75.8
	Emission Cap	CO	4.8	18.4
	Emission Cap	SO₂	1.7	7.2

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3) lb/hr		TPY
Q4502	Thermal Oxidizer	PM		
F-1, F-7A/F-7, FUG-DF, F-2A, F-2B	Dryer F	PM		
G-1, G-7, FUG-DG, G-2A, G-2B	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		
Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, FUG-DQ	Dryer Q	PM		
S1, S2, S3, FUG-DS	Dryer S	PM		
T1, T2, T3, FUG-DT	Dryer T	PM		
A5BF1, A5BF2, A5BF3, A5BF4, A5BF5, A5BF5FUG, A5AF, FUG-ABRS, FUG-A5F, FUG-CU	Miscellaneous Sources	PM		
	Emission Cap	PM	18.5	64.0
FUG E-849	Ammonia Chiller	NH ₃		
NH3FUGP2	P2 NH ₃ Fugitives	NH ₃		

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Point No. (1)	Name (2)	Name (3) lb/hr	TPY
NH3FUGP3	P3 NH ₃ Fugitives	NH ₃	
NH3FUGP5	P5 NH ₃ Fugitives	NH ₃	
RCTFUGC1	C-1 Polymer Area	NH ₃	
RCTFUGC2	C-2 Polymer Area	NH ₃	
RCTFUGC3	C-3 Polymer Area	NH ₃	
T-5001, T-5002	Cooling Towers	NH ₃	
T-5003, T-5004			
F2000A	Storage Tank F2000A	NH ₃	
	Emission Cap	NH₃	80.8
E-VENT, E-DUCT	MPF Fugitives	VOC	
F-1, F-7A/F-7,	Dryer F	VOC	
FUG-DF			
G-1, G-7, FUG-DG	Dryer G	VOC	
J1, J2, J3, J4,	Dryer J	VOC	
J5, J6, J7, J8,			
J9, FUG-DJ			
K1, K2, K3, K4,	Dryer K	VOC	
K5, K6, K7, K8,			
K9, FUG-DK			
L1, L2, L3, L4,	Dryer L	VOC	
L5, L6, L7, L8,			
L9, FUG-DL			
M1, M2, M3, M4,	Dryer M	VOC	
M5, M6, M7, M8,			
M9, FUG-DM			
P1, P2, P3, P4,	Dryer P	VOC	
P5, P6, P7, P8,			
P9, FUG-DP			
Q1, Q2, Q3, Q4,	Dryer Q	VOC	
Q5, Q6, Q7, Q8,			
Q9, FUG-DQ			
S1, S2, S3,	Dryer S	VOC	
FUG-DS			
T1, T2, T3,	Dryer T	VOC	
FUG-DT			

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Emission *	Source	Air Contaminant	Emission Rates
Point No. (1)	Name (2)	Name (3) lb/hr	TPY
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	
FUG-LCP	C and D - A6, P Dryer	VOC	
FUG-LCQ	C and D - A6, Q Dryer	VOC	
FUG-LCS	C and D - A4, S Dryer	VOC	
FUG-LCT	C and D - A4, T Dryer	VOC	
FUG-A2F	Packing and Shipping	VOC	
FUG-A3F	Packing and Shipping	VOC	
FUG-A4F	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-B1, FUG-B2, FUG-B3, RCTFUGC1, RCTSAMPFUG, RCTFUGC2, RCTFUGC3, FUGJ1, FUGJ2, BIO-F, UNLDSM	VOC Fugitives (4)	VOC	
CLEAN-B1, 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	
F403T	Latex Storage	VOC	
F410N	Latex Storage	VOC	
F420N	Latex Storage	VOC	
F430N	Latex Storage	VOC	
F440N	Latex Storage	VOC	
F450N	Latex Storage	VOC	

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

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Emission *	Source	Air Contaminant	Emission Rates
Point No. (1)	Name (2)	Name (3) lb/hr	TPY
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	
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	362 Vessels	VOC	
Source List			
F113, F114, F115	Recycle Styrene Storage Tanks		VOC
F131, F132	Blend Styrene Storage Tanks		VOC
F119 (mercaptan)	Raw Material Storage Tanks		VOC
F122 (mercaptan)			
F133 (styrene)			
F134 (styrene)			
F180 (methacrylic acid)			
F243 (pinane hydroperoxide)			

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
F360KA, F364C, F364D, F364E, F364F, F365A, F365B, F365H, 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	Waste Water Treatment	VOC		
H2LBV, H4LBV, A1LAB1, A1LAB2, A1LAB3, A1LAB4, A1LAB5, A1LAB6, A1LAB7, LBS (H6LBV through H12LBV will be in interim use)	Laboratory Vents	VOC		
G-DEGR, SP1-DEGR SP2-DEGR, TS-DEGR, A4-DEGR, D1-DEGR, D8-DEGR, W5-DEGR, X2-DEGR	Degreasers	VOC		
	Emission Cap	VOC	777.9	773.4
	Emission Cap	Butadiene	15.02	30.0
	Emission Cap	Styrene	271.1	293.7
	Emission Cap	AN	4.29	7.0
	Emission Cap	CS ₂	9.38	32.5
	Emission Cap	MAA	17.04	4.4
E-VENT, LC-VF, FUG-LCG, FUG-LCJ, FUG-LCK, FUG-LCL, FUG-LCM, FUG-LCP, FUG-LCQ, FUG-LCS, FUG-LCT	Crumb Rubber Finishing	H ₂ SO ₄	0.01	0.08
T-5111, T-5112, T-5113, T-5114, T-5115	Chlorine Fugitives (4)	Cl ₂	<0.05	0.05

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

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

- (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
NH₃ - ammonia
VOC - volatile organic compounds as defined in General Rule 101.1
AN - acrylonitrile
CS₂ - carbon disulfide
MAA - methacrylic acid
H₂SO₄ - sulfuric acid
Cl₂ - chlorine
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52
or Hrs/year _____

Dated _____