Emission Sources - Maximum Allowable Emission Rates

Flexible Permit Number 6618

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
Q4501	Plant Flare	NOx, CO, SO2		
Q4502	Thermal Oxidizer	NOx, CO, SO2		
F-1, FUG-DF, F-CDNZ	Dryer F	NOx, CO, SO2		
G-1, FUG-DG, G-CDNZ	Dryer G	NOx, CO, SO2		
J1, J2, J3, J4, J5, J6, J7, J8, J9, FUG-DJ	Dryer J	NOx, CO, SO2		
K1, K2, K3, K4, K5, K6, K7, K8, K9, FUG-DK	Dryer K	NOx, CO, SO2		
L1, L2, L3, L4, L5, L6, L7, L8, L9, FUG-DL	Dryer L	NOx, CO, SO2		
M1, M2, M3, M4, M5, M6, M7, M8, M9, FUG-DM	Dryer M	NOx, CO, SO2		
P1, P2, P3, P4, P5, P6, P7, P8, P9, FUG-DP	Dryer P	NOx, CO, SO2		
NOx, CO, andSO2 Emission Caps:		NOx	16.9	51.54
		CO	6.8	13.37
		SO2	1.6	7.04
Planned MSS Emissions (7):		NOx	0.5	0.05
		CO	2.54	0.27
		SO2	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, P9, FUG-DP	Dryer P	PM		
A5AF, FUG-ABRS, FUG-A5F, FUG-CU	Miscellaneous Sources	PM		
Particulate Emission Cap		PM	14.7	41.04

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Planned MSS Emissions (7):		PM	0.13	0.01
FUG E-849	Ammonia Chiller	NH3		
NH3FUGP2	P2 NH3 Fugitives (5)	NH3		
NH3FUGP3	P3 NH3 Fugitives (5)	NH3		
NH3FUGP5	P5 NH3 Fugitives (5)	NH3		
RCTFUGC2	C-2 Polymer Area	NH3		
RCTFUGC3	C-3 Polymer Area	NH3		
T-5001, T-5002, T-5003, T5004	Cooling Towers	NH3		
	Emission Cap	NH3		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		
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		
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-A2F	Packing and Shipping	VOC		

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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 (5)	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		
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		
F600L	Latex Storage	VOC		

Emission Sources - Maximum Allowable Emission Rates

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		
F610	Latex Blend Tank	VOC		
F611	Latex Blend Tank	VOC		
F612	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		

Emission Sources - Maximum Allowable Emission Rates

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 Source List	285 Vessels	VOC		
F119 (mercaptan), F122 (mercaptan), F131 (styrene), F132 (styrene), F133 (styrene),	Raw Material Storage Tanks	VOC		

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F134 (styrene), F243 (pinane hydroperoxide)				
F360KA, F364C, F364D, F364E,, F364F, F410E,, F410F, F824A,, A4ADDSYFUG,, A2ADDSYFUG, and, A6ADDSYFUG	Change, Feed, or Makeup Tanks			
T-5001, T-5002, T-5003, and T-5004	Cooling Towers (5)			
L1A, L2A, L3A, , L4A, L1B, and L2B, L3B, L4B, FLOCBSN,, LNDFILL, BIOLGN	Wastewater Treatment			
H2LBV, H4LBV, A1LAB1, A1LAB2, A1LAB3, A1LAB4, A1LAB5, A1LAB6, A1LAB7, LBS	Laboratory Vents			
G-DEGR, SP1-DEGR, SP2-DEGR, N1-DEGR,, REF-DEGR, P-DEGR,, D8-DEGR, W5-DEGR,, X2-DEGR, H-DEGR	Degreasers			
SUMP-A1, SUMP-A2, SUMP-A3, SUMP-A6, SUMP-B1, SUMP-B2, SUMP-B3, SUMP-D8, SUMP-D3	Water Separator			
VOC, Butadiene, Butenes, Styrene, and CS2 Emission Caps:		VOC (6)	684.6	379.47
		Butadiene	11	17.1
		Butenes	3.52	1.3
		Styrene	202.3	194.83
		CS2	5.5	21.48
Planned MSS Emissions (7):		VOC (6)	11.86	4.05
		Butadiene	6.05	0.67
		Butenes	1.82	0.1
		Styrene	1.05	0.55
LC-VF, FUG-LCG, FUG-LCJ, FUG-LCK, FUG-LCL, FUG-LCM, FUG-LCP, FUG-LCQ	Crumb Rubber Finishing	H2SO4	0.01	0.05
T-5111, T-5112, T5113	Chlorine Fugitives (5)	Cl2	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, FUG-DL, FUG-DM, FUG-DP	Planned MSS Emissions (7)	VOC (6)	1.05	0.01
		Butadiene	0.01	0.01
		Styrene	1	0.05
		NOx	0.01	0.01
		CO	0.16	0.01
		PM	0.13	0.01
6618-MSS/MISC	Miscellaneous MSS	VOC (6)	2.73	2.78

Emission Sources - Maximum Allowable Emission Rates

		Butadiene	0.02	0.02
		Butenes	0.01	0.01
		Styrene	0.04	0.05
		NOx	0.01	0.01
		CO	0.01	0.01
6618-MSS/DEGAS	Uncontrolled MSS (8)	VOC (6)	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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
NH_3 - ammonia
CS_2 - carbon disulfide
H_2SO_4 - sulfuric acid
Cl_2 - chlorine

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) VOC emissions include butadiene, butenes, styrene, and other organic compounds.
(7) MSS Emissions are included in the Emission Caps.
(8) 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.

Date: November 12, 2014