EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 8052

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)
138	Multipurpose Spray Dryer and Baghouse FC/FD-11-038	PM_{10}	2.03	8.90
		SO_2	0.01	0.04
		CO	0.39	1.71
		VOC	0.06	0.28
		NO_x	0.04	0.18
		Methanol	1.71	7.51
151	Ammonia Scrubber	NH_3	4.02	17.61
		VOC	0.34	0.70
		CH_2O	0.58	2.54
		CO	0.15	0.07
172	Hydrogen Cyanide Scrubber	HCN	0.03	0.09
		VOC	0.01	0.01
185	Flash Dryer	PM_{10}	0.02	0.09
		SO_2	0.01	0.01
		CO	0.04	0.17
		VOC	0.01	0.01
		NO_X	0.05	0.20
203	H2SO4 Storage Tank	H_2SO_4	0.01	0.01
232	Flash Dryer	PM_{10}	0.01	0.04
		SO_2	0.01	0.01
		CO	0.03	0.11
		VOC	0.01	0.01
		NO_X	0.03	0.13
237	Hydrogen Cyanide Tank Scrubber	HCN	0.01	0.01

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	Tank Scrubber	VOC (6)	0.25	0.10
		CO	0.01	0.01
262	Amine Scrubber	VOC	0.02	0.02
407	DAXAD Storage Tank 1	Methanol	1.19	0.07
		CH_2O	0.01	0.01
		Naphthalene	0.50	0.03
408	Loading Rack No. 4	Methanol	0.76	0.21(7)
		CH_2O	0.01	0.01(7)
		Naphthalene	0.32	0.09(7)
430	Spray Dryer	VOC (6)	13.57	59.44
		CH_2O	0.98	4.29
		CO	3.60	14.05
		PM_{10}	2.40	10.51
		SO_2	0.01	0.03
		NOx	0.85	3.72
442	DAXAD Storage Tank 4	Methanol	1.19	0.07
		CH_2O	0.01	0.01
		Naphthalene	0.50	0.03
443	DAXAD Storage Tank 3	Methanol	1.19	0.07
		CH_2O	0.01	0.01
		Naphthalene	0.50	0.03
444	DAXAD Storage Tank 2	Methanol	1.19	0.07
		CH_2O	0.01	0.01
		Naphthalene	0.5	0.03
516	Furan Utility Tank	Methanol	1.19	0.07
		CH_2O	0.01	0.01
		Naphthalene	0.5	0.01
531	DAXAD Storage Tank 5	Methanol	0.89	0.07
		CH_2O	0.01	0.01
		Naphthalene	0.38	0.03

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546	Fluid Bed Dryer	VOC (6)	8.22	35.00
		CH_2O	0.10	0.44
		CO	5.68	24.88
		PM_{10}	0.53	2.32
		SO_2	0.01	0.01
		NOx	4.91	21.51
566	Naphthalene Storage Tank A	VOC	6.04	1.63
568	Filter Aid Tank	Methanol	1.17	0.01
		CH_2O	0.01	0.01
		Naphthalene	0.50	0.01
569	Cake Wash Tank	Methanol	0.59	0.02
		CH_2O	0.01	0.01
		Naphthalene	0.25	0.01
573	Filter Press	Methanol	0.01	0.01
		CH_2O	0.01	0.01
		Naphthalene	0.01	0.01
598	DAXAD Thermal Oxidizer	CH_2O	0.06	0.24
		Methanol	0.96	3.99
		PM_{10}	0.06	0.26
		SO_2	0.01	0.01
		NOx	0.50	2.19
		CO	0.67	2.29
		Combustion VOC	0.03	0.13
723	East Cooling Tower	VOC	0.01	0.01
772	Cooling Tower	VOC	0.01	0.01
817	Fuel Oil Tank	VOC	0.01	0.01
819	Firewater Pump	PM_{10}	0.26	0.01
		SO_2	0.24	0.01
		CO	0.80	0.01
		VOC	0.29	0.01
		NOx	3.70	0.05

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859	Boiler (3 total)	PM_{10}	0.32	1.41
		SO_2	0.03	0.11
		CO	4.57	20.02
		VOC	0.73	3.2
		NOx	3.25	14.24
895	Naphthalene Storage Tank B	VOC	6.04	1.72
1290	DSIDA Tank	VOC	0.01	0.01
1560	Purge Liquor Tank	VOC	0.01	0.01
2914	Naphthalene Storage Tank C	VOC	6.04	1.63
4032	Lime Silo Baghouse	PM_{10}	0.08	0.01
4033	Lime Slaker Scrubber	PM_{10}	0.06	0.01
4034	LCA DAXAD Prefilter Tank	Methanol	0.88	0.09
		CH_2O	0.01	0.01
		Naphthalene	0.37	0.04
4035	LCA DAXAD Unfiltered Water Tank	Methanol	0.88	0.03
		CH_2O	0.01	0.01
		Naphthalene	0.37	0.01
4037	LCA DAXAD Filter Press	CH_2O	0.01	0.01
		Methanol	0.01	0.03
		Naphthalene	0.02	0.04
4038	LCA DAXAD Cake Wash H2O Tank	Methanol	0.88	0.03
		CH_2O	0.01	0.01
		Naphthalene	0.37	0.01
4039	LCA DAXAD Product Receiver H2O Tank	Methanol	0.89	0.03
		CH_2O	0.01	0.01
		Naphthalene	0.38	0.04
4040	Third Product Receiver Tank H2O Tank	Methanol	0.90	0.09
		CH_2O	0.01	0.01
		Naphthalene	0.38	0.04

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	H2O Tank	CH_2O	0.01	0.01
		Naphthalene	0.38	0.04
4297	Loading Rack No. 2	Methanol	0.76	(7)
		CH_2O	0.01	(7)
		Naphthalene	0.32	(7)
4338	Third Filter Press	CH_2O	0.01	0.01
		Methanol	0.01	0.01
		Naphthalene	0.03	0.02
4513	Prefilter Tank H2O Tank	Methanol	0.89	0.11
		CH_2O	0.01	0.01
		Naphthalene	0.38	0.04
5019	Bersworth Reactor I	NH_3	0.93	0.17
		VOC	0.42	0.08
5319	Bersworth Reactor II	NH_3	0.93	0.17
		VOC	0.42	0.08
5357	DSIDA Centrifuge	HCN	0.03	0.02
5361	DSIDA Steam Jet	HCN	0.03	0.02
6031	DAXAD Storage Tank 6	CH_2O	0.01	0.01
		Methanol	0.89	0.29
		Naphthalene	0.38	0.12
6032	DAXAD Storage Tank 7	CH_2O	0.01	0.01
		Methanol	1.19	0.28
		Naphthalene	0.50	0.12
6034	DAXAD Storage Tank 9	CH_2O	0.01	0.01
		Methanol	1.19	0.27
		Naphthalene	0.50	0.11
6036	NTA-150 Storage Tank	VOC	0.01	0.01
6064	Loading Rack No. 5	Methanol	0.76	(7)
		CH_2O	0.01	(7)
		Naphthalene	0.32	(7)

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6065	Loading Rack No. 1	Methanol	0.76	(7)
		CH_2O	0.01	(7)
		Naphthalene	0.32	(7)
6121	Loading Rack No. 9	Methanol	0.76	(7)
		CH_2O	0.01	(7)
		Naphthalene	0.32	(7)
6122	Loading Rack No. 8	Methanol	0.76	(7)
		CH_2O	0.01	(7)
		Naphthalene	0.32	(7)
6123	Loading Rack No. 7	Methanol	0.76	(7)
		CH_2O	0.01	(7)
		Naphthalene	0.32	(7)
7717	DAXAD Storage Tank 12	CH_2O	0.01	0.01
		Methanol	1.19	0.12
		Naphthalene	0.5	0.05
8000	DSIDA Storage Tank	VOC	0.01	0.01
8003	Chelate Acid Centrifuge Discharge Hopper	PM_{10}	0.03	0.03
155171	DAXAD Storage Tank A	Methanol	1.19	0.10
		CH_2O	0.01	0.01
		Naphthalene	0.5	0.04
155181	DAXAD Storage Tank B	Methanol	0.59	0.10
		CH_2O	0.01	0.01
		Naphthalene	0.25	0.04
1700901	Cartridge Dust Collector	PM_{10}	0.01	0.01
1700905	Glycine Conditioning Train Baghouse	PM_{10}	0.03	0.14
Fugitives	Fugitives (4)	VOC	0.26	1.14
		NH_3	0.06	0.26
FU-1	DAXAD Product Fugitives (4)	CH_2O	0.01	0.01
		Methanol	0.02	0.11
		Naphthalene	0.01	0.05

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(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) PM_{10} - particulate matter (PM) 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.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
CO - carbon monoxide
HCN - hydrogen cyanide
CH_2O - formaldehyde
NH_3 - ammonia
H_2SO_4 - sulfuric acid
(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) Volatile organic compounds from EPNs 245, 439 and 546 are exclusive of formaldehyde.
(7) Annual emissions on EPN 408 are the sum of annual emissions from EPN=s 408, 4297, 6064, 6065, 6121, 6122, and 6123

Date: _____