

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 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. 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		Air Contaminant		<u>Emission Rates *</u>	
	Name (2)	Name (3)	lb/hr	TPY		
107	Ammonia	PSV		Emergency Relief		
151	Ammonia	Scrubber		NH3	0.76	3.33
				VOC	2.28	10.00
172	Hydrogen Cyanide	Scrubber		HCN	0.0005	0.002
185	Flash Dryer			PM10	<0.01	<0.01
				SO2	<0.01	<0.01
				CO	<0.01	0.03
				VOC	<0.01	<0.01
				NOx	0.04	0.16
203	H2SO4	Tank		H2SO4	0.01	0.01
225	HCN	Surge Tank		Emergency Relief		
232	Flash Dryer			PM10	<0.01	<0.01
				SO2	<0.01	<0.01
				CO	<0.01	0.02
				VOC	<0.01	<0.01
				NOx	0.02	0.10
237	Hydrogen Cyanide	Tank Scrubber		HCN	0.0505	0.0124
239	Formaldehyde	P/V Vent		Emergency Relief		
242	Ammonia	Tank		Emergency Relief		

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			lb/hr	TPY
245	Formaldehyde Tank Scrubber	CH2O	0.11	0.031
		VOC (5)	0.12	0.50
262	Amine Scrubber	VOC	0.02	0.02
407	DAXAD Tank	VOC	0.01	0.01
430	Spray Dryer	PM10	2.40	10.51
		SO2	<0.01	0.03
		CO	0.18	0.79
		NOx	2.35	10.29
		CH2O	0.98	4.29
		VOC	1.83	6.86
442	DAXAD Tank	VOC	0.01	0.01
443	DAXAD Tank	VOC	0.01	0.01
444	DAXAD Tank	VOC	0.01	0.01
513	Vent Catch	Emergency Relief		
516	Utility Tank	VOC	0.01	0.01
531	DAXAD Tank	VOC	0.01	0.01
546	Fluid Dryer	VOC (5)	6.8	15.0
		NOx	0.9100	3.986
		SO2	0.0024	0.011
		PM10	0.5300	2.321
		CO	0.6800	2.978
		CH2O	0.0730	0.320
566	Naphthalene Tank	VOC	0.330	1.45

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			lb/hr	TPY
568	Filter Aid Tank		PM10	0.0513 0.224
569	Cake Wash Tank		VOC	0.01 0.01
571	Prod. Receiver		Emergency Relief	
572	Pre-Filter		Emergency Relief	
573	Filter Press		Emergency Relief	
598	Venturi Scrubber		CH2O	0.227 0.994
			VOC (5)	0.69 3.0
723	East Cooling Tower		VOC	0.01 0.01
772	Cooling Tower		VOC	0.01 0.01
817	Fuel Oil Tank		VOC	0.0002 0.001
819	Firewater Pump		PM10	0.26 0.0033
			SO2	0.24 0.0030
			CO	0.80 0.0100
			VOC	0.29 0.0038
			NOx	3.70 0.0460
859	Boiler (3 total)		PM10	0.37 1.62
			SO2	0.05 0.20
			CO	2.59 11.34
			VOC	0.22 0.98
			NOx	10.35 45.34
895	Naphthalene Tank		VOC	0.162 0.711
1129	Glycine Saponifier		NH3	2.80 0.653
			VOC	0.13 0.3

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			lb/hr	TPY
1132	Glycine Saponifier	NH3	2.8	0.653
		VOC	0.13	0.3
1134	Glycine Saponifier	NH3	2.8	0.653
		VOC	0.13	0.3
1290	DSIDA Tank	VOC	<0.01	<0.01
1560	Purge Liquor Tank	VOC	0.01	0.01
2820	Oxalic Scrubber	PM10	0.0084	0.037
2884	DAXAD Tank	VOC	0.01	0.01
2914	Naphthalene Tank	VOC	0.163	0.713
2946	Oleum Tank Scrubber	SO3	0.001	0.002
4032	Lime Silo	PM10	0.00023	0.0013
4033	Lime Slaker	PM10	0.000045	0.0002
		VOC	0.01	0.01
4034	Prefilter Tank	VOC	0.01	0.01
4035	Filter H2O Tank	VOC	0.01	0.01
4037	Filter Press	VOC	0.01	0.01
4038	Cake Wash Tank	VOC	0.01	0.01
4039	Product Receiver	VOC	0.01	0.01
4040	Off Spec Tank	VOC	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
4290	Product Receiver	VOC	0.01	0.01
4338	Filter Press	VOC	0.01	0.01
5019	Bersworth Reactor I	NH3	0.75	2.84
		VOC	0.12	0.5
5319	Bersworth Reactor II	NH3	0.75	3.26
		VOC	0.12	0.5
5357	DSIDA Centrifuge	HCN	0.028	0.0196
5361	DSIDA Steam Jet	HCN	0.028	0.0196
6031	DAXAD Tank	VOC	0.01	0.01
6032	DAXAD Tank	VOC	0.01	0.01
6033	Chelate Storage Tank	VOC	<0.01	<0.01
6034	DAXAD Tank	VOC	0.01	0.01
6035	Chelate Storage Tank	VOC	<0.01	<0.01
6036	NTA-150 Storage Tank	VOC	<0.01	<0.01
7432	CH2OPV	Emergency Relief		
7600	Oleum Tank	Emergency Relief		
8000	DSIDA Storage Tank	VOC	<0.01	<0.01
Fugitives	Fugitives (4)	VOC	0.26	1.14
		NH3	0.06	0.26

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
(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 - particulate matter			
	PM10 - particulate matter less than 10 microns			
	VOC - volatile organic compounds as defined in General Rule 101.1			
	NOx - total oxides of nitrogen			
	SO2 - sulfur dioxide			
	SO3 - sulfur trioxide			
	CO - carbon monoxide			
	HCN - hydrogen cyanide			
	CH2O - formaldehyde			
	NH3 - ammonia			
	DAXAD - naphthalene sulfonic acid - formaldehyde, salt Na, Ca, and K.			
	DSIDA - di-sodium-iminodiacetate			
	NTA - trisodium nitrotriacetate, water solution			
(4)	Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.			
(5)	Volatile organic compounds exclusive of formaldehyde.			

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

Hrs/day___Days/week___Weeks/year___or Hrs/year 8,760

Dated _____