EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 650

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 Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
BR1-V065	Reactor No. 1	IOA	<0.01	<0.01
BR2-V064	Reactor No. 2	VOC	0.44	0.06
BR3-V070	Reactor No. 3	VOC	<0.01	<0.01
		IOA	<0.01	<0.01
BR4-V071	Reactor No. 4	IOA	<0.01	<0.01
BB1-V065	Blender No. 1	VOC	0.44	0.02
		IOA	<0.01	<0.01
BB2-V077	Blender No. 2	IOA	<0.01	<0.01
BB3-078	Blender No. 3	IOA	<0.01	<0.01
BTL-V073	Loading Pad No. 1	VOC	<0.01	<0.01
BTL-V079	Loading Pad No. 2	VOC	<0.01	<0.01
BTL-V080	Loading Pad No. 3	VOC	1.40	1.00
		VOC	0.07	0.05 (5)
BTL-V073	Drum Washing	VOC	1.20	1.00
		VOC	0.06	0.05 (5)
BCO-V072	Condenser	VOC	<0.01	<0.01
BCY-V088	Cyclone	VOC	<0.01	<0.01

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		PM	0.03	<0.01
BSC-S062	Packed Tower Scrubber	VOC	0.44	0.20
		IOA	<0.01	<0.01
		NH_3	<0.01	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr		TPY
BSC-S063	Caustic Scrubber	SO_2	5.31		3.01
		VOC	0.01	<	<0.01
		H_2O_2	<0.01		<0.01
BSC-S069	Venturi Scrubber	VOC	0.28		0.11
BSC-S070	Truck Loading Scrubber	VOC	0.07		0.05
BVS-V075	Carbon Canister	VOC	<0.01		<0.01
BVS-V090	Organic PAA CAS	VOC	<0.01		<0.01
		H_2O_2	<0.01		<0.01
AFP-V087	Diesel Tank	VOC	0.02		<0.01
BT1-V002	Storage Tank	VOC	<0.01		<0.01
BT1-V003	Blender Tank	VOC	<0.01		<0.01
BT1-V004	Storage Tank	VOC	<0.01		<0.01
BT1-V005	Storage Tank	VOC	<0.01		<0.01
BT1-V006	Storage Tank	VOC	<0.01		<0.01
BT1-V007	Storage Tank	VOC	<0.01		<0.01
BT1-V008	Storage Tank	VOC	<0.01		<0.01
BT1-V009	Storage Tank	VOC	<0.01		<0.01
BT2-V011	Storage Tank	VOC	<0.01		<0.01
BT2-V012	Storage Tank	VOC	<0.01		<0.01

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BT2-V013	Storage Tank	VOC	<0.01	<0.01
BT2-V014	Storage Tank	VOC	<0.01	<0.01
BT2-V015	Storage Tank	VOC	<0.01	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
BT2-V016	Storage Tank	VOC	<0.01	<0.01
BT2-V017	Storage Tank	VOC	<0.01	<0.01
BT2-V018	Storage Tank	VOC	<0.01	<0.01
BT2-V019	Storage Tank	VOC	<0.01	<0.01
BT2-V020	Storage Tank	VOC	<0.01	<0.01
BT2-V021	Storage Tank	VOC	<0.01	<0.01
BT2-V022	Storage Tank	VOC	<0.01	<0.01
BT2-V023	Storage Tank	VOC	<0.01	<0.01
BT2-V024	Storage Tank	VOC	<0.01	<0.01
BT2-V025	Storage Tank	VOC	<0.01	<0.01
BT2-V026	Storage Tank	VOC	<0.01	<0.01
BT2-V027	Phosphoric Acid Tank	H_3PO_4	0.44	0.07
BT2-V028	Acrylic Acid CAS	VOC	<0.01	<0.01
BT2-V029	Acrylamide Tank	VOC	0.18	0.04
BT2-V030	Polyphosphoric Acid Tank	PPA	<0.01	<0.01
BT2-V031	Storage Tank	VOC	<0.01	<0.01
BT2-V059	Sodium Bisulfite Tank Seal Pot	SO_2	0.06	<0.01
BT2-V060	Storage Tank	VOC	<0.01	<0.01
BT3-V034	Cyclohexylamine Tank	VOC	0.55	0.19

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BT3-V035	Storage Tank	VOC	6.95	0.08
BT3-V036	Methoxypropylamine Tank	VOC	0.28	0.05

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
BT3-V037	Storage Tank	VOC	6.95	0.08
BT3-V040	Storage Tank	VOC	6.95	0.08
BT3-V041	Storage Tank	VOC	6.95	0.08
BT3-V061	Dimethylamine Tank	VOC	1.10	0.05
BT4-V094	$NaHSO_3$ Tank 1	SO_2	0.06	<0.01
BT4-V095	$NaHSO_3$ Tank 2	SO_2	0.03	<0.01
BT4-V096	H_2O_2 Feed Tank	H_2O_2	0.01	<0.01
MFP-V086	Diesel Tank	VOC	0.04	<0.01
MFS-V007	Gasoline Tank	VOC	2.77	0.14
MFS-V008	Diesel Tank	VOC	0.06	<0.01
RT4-V001	Storage Tank	VOC	<0.01	<0.01
RT4-V002	Storage Tank	VOC	<0.01	<0.01
RT4-V003	Storage Tank	VOC	<0.01	<0.01
BBR-S049	Boiler	PM_{10}	<0.01	<0.01
		VOC	<0.01	<0.01
		SO_2	<0.01	<0.01
		NO_x	0.02	0.09
		CO	<0.01	0.02
BBR-S096	Boiler	PM_{10}	0.02	0.09
		VOC	0.02	0.09
		SO_2	<0.01	0.01
		NO_x	0.39	1.72
		CO	0.08	0.34
APW-V085	Potable Water	Cl_2	0.15	0.07

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		Treatment			
BSU-V081	Sump		VOC	<0.01	<0.01

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
BSU-V082	Sump	VOC	<0.01	<0.01
BEF-S054	Clarifier	VOC	<0.01	<0.01
MOO-V084	Fugitives (4)	VOC	0.05	0.22
BOO-E076	Fugitives - Flammable	VOC	0.18	0.78
	Blend Building (4)	VOC	0.01	0.04 (6)
BOO-E074	Fugitives - WMD Warehouse (4)	VOC	3.73	1.55
BOO-V083	Fugitives - Dedicated Tank Farm (4)	VOC	0.71	3.12
BOO-V091	Organic Bulk Storage Fugitives (4)	VOC	0.01	0.03
BOO-V092	Raw Material Unload Fugitives (4)	VOC	0.03	0.11
BOO-V093	Organic Feed Tank Fugitives (4)	VOC	0.01	0.03
TOO-E029	Fugitives (4)	VOC	<0.01	<0.01

(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
PM_{10} - particulate matter less than 10 microns
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
CO - carbon monoxide
PPA - polyphosphoric acid

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H_3PO_4 - phosphoric acid
NH_3 - ammonia
IOA - inorganic acids
Cl_2 - chlorine
H_2O_2 - hydrogen peroxide

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(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

(5) Allowable emission rate after May 1, 1993 or the installation of a system to capture and control at least 95 percent of the loading emissions whichever occurs first.

(6) Allowable emission rate after October 31, 1992 or the installation of a system to collect the dedrumming and bin washing emissions and route them to the packed tower scrubber whichever occurs first.

* 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_____