EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 7719A

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
F-CT3	Cooling Tower	VOC	0.07	0.29
		Chlorine	0.03	0.12
		Bromine	0.03	0.12
F-R1	Process Fugitives (4)	VOC	1.82	7.99
		H_2S	0.03	0.13
	Process Fugitives (4 and 5)	VOC	2.25	9.88
		H_2S	0.05	0.22
F-R2	Powder Boxing Stations	PM	<0.01	0.01
	Powder Boxing Stations (5)	PM	<0.01	0.02
F-R3	Blower Discharge	PM	0.14	0.61
H-8	No. 1 Heater	CO	1.25	5.48
		NO_x	2.39	10.48
		SO_2	0.96	0.10
		VOC	0.10	0.44
		PM	0.49	2.15
H-9	No. 2 Heater	CO	1.25	5.48
		NO_x	2.39	10.48
		SO_2	0.96	0.10
		VOC	0.10	0.44
		PM	0.49	2.15
R-R1	North DCB Railcar	VOC	0.62	2.72

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
R-R2	NaSH Railcar	H_2S	0.07	0.34
R-V1	Acetic Acid Scrubber	VOC	0.01	<0.01
R-V2	Crude NMP Surge Tank Cond.	VOC	0.54	2.38
		H_2S	0.10	0.38
		Acetone	<0.01	<0.01
R-V3	Cure Vessel Vent Scrubber YA25	VOC	0.48	1.04
		PM_{10}	<0.01	0.02
		PM	0.06	0.28
		Acetone	<0.01	<0.01
R-V5	Cure Vessel Vent Scrubber YA24	VOC	0.48	1.04
		PM_{10}	<0.01	0.02
		PM	0.06	0.28
		Acetone	<0.01	<0.01
R-V8	Dehydration Scrubber	VOC	0.01	0.03
		H_2S	<0.01	0.01
		Acetone	<0.01	<0.01
R-V11	Low-Pressure K. O. Pot	VOC	0.55	1.95
		H_2S	0.39	1.73
		Acetone	0.02	0.07
R-V12	Process Water Sump	VOC	0.02	0.06
		Acetone	<0.01	0.01
R-V13	No. 1 Dryer Vent (6)	VOC	0.70	3.07
		Acetone	0.05	0.21
R-V14	No. 3 Dryer Vent	VOC	4.03	10.93
		PM_{10}	1.16	5.54
		Acetone	0.27	0.74
R-V15	No. 1 Belt Filter	H_2S	0.01	0.03

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
R-V16	Train B No. 2 Dryer Vent (5)	VOC	4.02	10.92
		PM_{10}	0.28	1.23
		Acetone	0.27	0.74
R-V17	Train B No. 2 Dehydration Scrubber (5)	VOC	0.01	0.03
		H_2S	<0.01	0.01
		Acetone	<0.01	<0.01
T-95-28	Lights Column Phase Separator	VOC	0.06	0.31
		Acetone	0.01	0.02
T-95-114	NMP Storage Tank	VOC	0.02	0.07
T-95-136	Filter Feed Tank	VOC	0.12	0.43
		H_2S	0.12	0.45
		Acetone	<0.01	0.02
T-95-160	No. 6 Slurry Tank	VOC	0.01	0.04
		Acetone	<0.01	<0.01
T-95-166	NMP Heavies (M-5)	VOC	0.86	0.10
T-95-167	Crude NMP Tank (M-6)	VOC	0.02	0.07
T-95-169A	S. Fresh/Recycle NMP	VOC	0.02	0.07
T-95-169B	N. Fresh/Recycle NMP	VOC	0.02	0.07
T-95-170	NaSH Storage Tank	H_2S	3.24	0.56
T-95-174	No. 1 Slurry Tank	VOC	0.01	0.04
		Acetone	<0.01	<0.01
T-95-182	NaSH Waste/Recycle Tank	H_2S	4.68	0.07

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
T-95-YA04	Train B No. 2 Feed Filter Tank (5)	VOC	0.12	0.44
		H_2S	0.12	0.45
		Acetone	<0.01	0.02

(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 Section 101.1
H_2S - hydrogen sulfide
PM - particulate matter, suspended in the atmosphere, including PM_{10} from that emission point
PM_{10} - particulate matter 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.
CO - carbon monoxide
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
(5) Emission rate after the installation of emission controls as specified in Special Condition No. 7 and production increase above the interim limit.
(6) Emission point void after debottlenecking allows production to be increased above the interim limit.

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

_____Hrs/day ____ Days/week ____Weeks/year or __8,760__ Hrs/year

Dated ___May 1, 2002____