

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 21832

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**
011ES3	F-1 Furnace Stack	CO	0.30	1.33
		NO _x	0.36	1.58
		PM ₁₀	0.03	0.12
		SO ₂	0.02	0.10
		VOC	0.02	0.09
011ES4	F-2 Furnace Stack	CO	0.15	0.66
		NO _x	0.18	0.79
		PM ₁₀	0.01	0.06
		SO ₂	0.01	0.05
		VOC	0.01	0.04
011ES5	F-3 Furnace Stack	CO	0.76	3.31
		NO _x	0.90	3.94
		PM ₁₀	0.07	0.30
		SO ₂	0.05	0.24
		VOC	0.05	0.22
011FL1	Flare	Acetone	0.08	0.35
		CO	4.34	19.00
		NO _x	0.92	4.04
		SO ₂	0.04	0.17
		VOC	0.04	0.17
011MNT1	Start up, Shutdown, and Maintenance Emissions (MIPK process)	Acetone	23.70	0.55
		VOC	35.58	1.00

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u> lb/hr	
	TPY**			
	Start up, Shutdown, and Maintenance Emissions (IBN Process)	Acetone	80.69	1.94
		NH ₃	0.96	0.38
		VOC	25.58	7.76
	Start up, Shutdown, and Maintenance Emissions (NBN process)	Acetone	80.69	1.94
		NH ₃	0.96	0.38
		VOC	19.98	7.59
011SB2	Scrubber Vent	Acetone	4.00	0.05
		VOC	2.00	1.31
011ST1	Tank Vent	VOC	3.72	0.05
011ST2	Tank Vent	Acetone	2.80	0.04
		VOC	8.99	0.12
011ST5	Tank Vent	VOC	8.92	0.20
011T16	Tank Vent	VOC	3.15	0.01
011T22	Tank Vent	VOC	2.98	0.26
011T23	Tank Vent	VOC	2.98	0.25
011T24	Tank Vent	VOC	2.98	0.03
015LR1	Loading Spot	Acetone	4.09	0.13
		VOC	10.27	0.59
015LT76	Loading Spot	Acetone	4.09	0.13
		VOC	5.13	0.59
015LT77	Loading Vent	NH ₃	19.07	0.90

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2) TPY**	Air Contaminant Name (3)	<u>Emission Rates</u>	
			<u>lb/hr</u>	
048T56	Tank Vent	VOC	1.27	0.15
048T59	Tank Vent	VOC Acetone 32.10	1.37 1.25	0.06
048T84	Tank Vent	VOC	0.31	0.02
048T205	Tank Vent	Acetone	5.19	3.22
048T206	Tank Vent	Acetone	5.19	3.22
049T200	Tank Vent	VOC	5.96	1.30
049T201	Tank Vent	VOC	5.96	1.30
058LD1	Loading Spot	VOC	1.88	0.59
093LR1	Loading Spot	VOC	8.56	0.79
093T10	Tank Vent	VOC	0.14	0.07
093T11	Tank Vent	VOC	2.88	0.88
098LD1	Loading Operations	VOC	1.57	0.79
098LT90	Loading Spot	VOC	4.28	0.79
098T13	Tank Vent	VOC	0.20	0.13

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2) TPY**	Air Contaminant Name (3)	<u>Emission Rates</u> lb/hr	
F011FGW	Wastewater Emissions (MIPK Process) (IBN Process)	VOC	0.62	2.76
		NH ₃	0.14	0.62
		VOC 0.77	3.35	
	(NBN Process)	NH ₃	0.14	0.62
		VOC 0.33	1.44	
F011FG3	Process Fugitives (4) (All Three Production Modes)	Acetone	0.58	2.55
		NH ₃	0.03	0.15
		VOC	2.92	12.79
F048FG1	Process Fugitives (4) (All Three Production Modes)	Acetone	0.16	0.70
		VOC	0.80	3.51
F098FG13	Process Fugitives (4) (All Three Production Modes)	VOC	0.45	1.98

- (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) CO - carbon monoxide
 NH₃ - ammonia
 NO_x - total oxides of nitrogen
 PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter.
 SO₂ - sulfur dioxide
 VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 IBN - isobutyronitrile
 NBN - N-butyronitrile
 MIPK - methyl Isopropyl Ketone
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

Permit Number 21832
Page 5

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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

Hrs/day 24 Days/week 7 Weeks/year 52

- ** Compliance with annual emission limits is based on a rolling 12-month period.

Date_____