EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 1862A

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	Source		Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
1	OP Caustic Scrubber		HCI VOC	0.18 0.46	0.04 0.08
5	Phosgene Plant Flare (5)	CO COCI VOC SO ₂ HCI	Cl ₂ 2.33 ₂ 0.01 NO _x 0.28 0.02 7.51	0.01 3.65 0.01 0.19 0.06 0.04 1.50	0.01
		Aceto		0.43	0.09
F13	5000 and 6000 Area Fugitives (4)		VOC	0.16	0.69
14	Drumming Scrubber		VOC HCI	2.44 0.33	0.59 0.03
F15	Area Tank Fugitives (4)		VOC	0.02	0.32
F17	250K Storage Fugitives (4)		VOC	0.01	0.03
F19	Products Area Fugitives (4) HCl		VOC 0.01	0.44 0.01	1.86
F23	Phosgene Plant Fugitives (4)		Cl ₂ CO VOC	0.05 0.01 0.06	0.21 0.02 0.22
25	RX-3100 Vent		PM ₁₀	0.03	0.02
F27	L-ASP Charging Fugitives (4)		PM ₁₀ (Z-ASP)	0.01	0.01

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AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
29	L-ASP Solid Handling System Vent PM ₁₀	VOC (Z-ASP)	0.01 0.01	0.01 0.01
F31	Z-ASP Reactor Fugitives (4)	VOC (Na-Z-ASP)	0.03	0.11
F36	BCF Storage Tank Fugitives (T-3110)(4)	VOC	0.01	0.04
41	DMO Loading	VOC	0.01	0.01
46	Z-ASP Day Tank (T-3111)	VOC (Na-Z-ASP)	0.01	0.01
47	Z-ASP Day Tank (T-3112)	VOC (Na-Z-ASP)	0.01	0.01
48	Z-ASP Storage Tank (T-3113)	VOC (Na-Z-ASP)	0.01	0.01
49	Z-ASP Storage Tank (T-3114)	VOC (Na-Z-ASP)	0.01	0.01
F50	Na-Z-ASP Tank Area Fugitives (4)	VOC (Na-Z-ASP)	0.01	0.01
51	Na-Z-ASP Truck Loading Emissions	VOC (Na-Z-ASP)	0.01	0.01
52	South Boiler VOC	CO NO _x PM ₁₀ SO ₂ 0.09	1.11 1.19 0.16 0.02 0.18	2.21 2.38 0.32 0.04
53	Thermal Oxidizer Stack		0.16 1.44 0.43 1.44 1.01	0.68 6.00 1.65 1.50 2.39

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
F54	Thermal Oxidizer Fugitives (4) COCI	VOC ₂ 0.01	0.04 0.01	0.15
F55	Cold Vent Fugitives (4)	VOC	0.04	0.11
F59	DCPI Plant Fugitives (4)	VOC	0.12	0.46
F60	DCPI Loading Collection Los	sses	VOC	0.01
61	DCPI Cooling Tower Emission 0.07	าร	VOC	0.02
62	DCPI Tar Loading	VOC	0.01	0.01
70	ETOH Tank Vent (T-3)	VOC	5.71	0.28
67	MEOH Tank Vent (T-7)	VOC	8.02	0.36
68	2-EHOH Tank Vent (T-9)	VOC	0.04	0.01
71	North BOH Tank Vent (T-5)	VOC	0.01	0.01
69	SBOH Tank Vent (T-10)	VOC	3.00	0.06
72	South BOH Tank Vent (T-6)	VOC	0.01	0.01
73	Z-ASP BOH Tank Vent	VOC	0.02	0.01
F-MOSF	Multipurpose Organic Synthe	esis 0.46	VOC	0.10
	COC1	20.01	0.01	
F74	Truck Loading Area Fugitive 0.06	es (4)	VOC	0.02
F77	CO Storage Area Fugitives	(4)	CO	0.15

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(1)	Emission	point	identific	ation -	either	specific	equipment
	designation or	emissio	n point n	umber from	plot p	olan.	

- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) Cl₂ chlorine

CO - carbon monoxide

COCl₂ - phosgene

HCl - hydrochloric acid

Na-L-ASP - sodium salt of carbobenzoxy L- aspartic acid Na-Z-ASP - sodium salt of carbobenzoxy aspartic acid

NO_x - total oxides of nitrogen

 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 PM greater than 10 microns is emitted.

PVCI - pivaloyl chloride SO₂ - sulfur dioxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

Z-ASP - carbobenzoxy aspartic acid

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Includes 400 hours for Pharmaceutical Expansion Plant vents when the thermal oxidizer is unavailable.
- * 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
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^{*} Compliance with annual emission limits is based on a rolling 12-month period.