Emission Sources - Maximum Allowable Emission Rates

Permit Number 104098

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
B19S2	F-210 Thermal Treatment Unit	CO	9.59	-
		NO_x	4.40	-
		SO_2	0.04	-
		Pb	0.01	-
		Hg	0.01	-
		Cl_2	1.14	-
		HCl	0.75	-
		Acetone	0.01	-
		PM	4.07	-
		PM_{10}	4.07	-
		HRVOC	0.01	-
		VOC	1.76	-
B23S826	Heater Vent Stack	CO	0.78	-
		NO_x	0.92	-
		SO_2	0.13	-
		Pb	0.01	-
		Hg	0.01	-
		PM	0.07	-
		PM_{10}	0.07	-
		VOC	0.05	-

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B23F865	FS-865 Flare	CO	30.93	-
		NO_x	5.95	-
		SO_2	1.33	-
		Cl_2	0.01	-
		HCl	0.04	-
		HRVOC	0.93	-
		VOC	1.33	-
B68S3	F-3 Heater Vent Stack	CO	0.71	-
		NO_x	0.84	-
		SO_2	0.12	-
		Pb	0.01	-
		Hg	0.01	-
		PM	0.06	-
		PM_{10}	0.06	-
		VOC	0.05	-

Emission Sources - Maximum Allowable Emission Rates

B70S2	FTB-603 Thermal Treatment Unit Scrubber Vent Stack	CO	6.44	-
		NO_x	4.00	-
		SO_2	0.12	-
		Pb	0.01	-
		Hg	0.01	-
		Cl_2	1.78	-
		HCl	0.87	-
		PM	0.91	-
		PM_{10}	0.91	-
		HRVOC	0.01	-
		VOC	0.86	-
B70F1	Flare Stack 101	CO	30.15	-
		NO_x	5.86	-
		SO_2	1.33	-
		Cl_2	0.02	-
		HCl	0.60	-
		HRVOC	0.93	-
		VOC	0.43	-
B70F801	FS-801 Flare	CO	38.79	-
		NO_x	7.55	-
		SO_2	1.33	-
		HRVOC	0.93	-
		VOC	0.41	-

Emission Sources - Maximum Allowable Emission Rates

B19S2, B23S826, B23F865, B68S3, B70S2, B70F1 and B70F801	Combustion Emissions Source Group Cap	CO	-	182.47
		NO_x	-	53.88
		SO_2	-	0.17
		Pb	-	0.04
		Hg	-	0.04
		Cl_2	-	12.83
		HCl	-	7.11
		Acetone	-	0.03
		PM	-	21.84
		PM_{10}	-	21.84
		HRVOC	-	(6)
		VOC	-	12.97
B19FU1	Epichlorohydrin 1 Process Fugitives (5)	VOC	3.81	-
		HRVOC	0.01	-
		Cl_2	0.11	-
B19FU5	EPI 1 Dichlorohydrin Process Fugitives (5)	VOC	3.66	-
		HRVOC	0.01	-
		Refrigerant	0.24	-
B19FU6	NW Tank Farm, Allyl Chloride Tank, EPI Tank and Crude Trichloropropane Tank Fugitives (5)	VOC	2.55	-
B19FU7	Butylene Oxide Process Area Fugitives (5)	VOC	3.26	-
		Cl_2	0.02	-
B19FU9	B-1900 Loading Rack Fugitives (5)	VOC	0.03	-
B21FU1	B-2100 Epichlorohydrin Fugitives and HOCl Fugitives (5)	Cl_2	0.14	-

Emission Sources - Maximum Allowable Emission Rates

B23FU2	Soil Fumigants, Allyl Chloride, and Epichlorohydrin Process Area Fugitives (5)	VOC	3.63	-
		HRVOC	2.50	-
		Refrigerant	0.33	-
B23FU8	B-2300 Loading Rack Fugitives, Butylene Oxide Fugitives, Soil Fumigants Loading Rack Fugitives (5)	VOC	1.90	-
B68FU1	Allyl Chloride Process Fugitives, Propylene Dichloride Fugitives and Allyl PDC Process Fugitives (5)	Cl_2	0.60	-
		HCl	2.50	-
		Refrigerant	0.24	-
		HRVOC	2.50	-
		Acetone	0.01	-
		VOC	14.91	-
B70FU1	B-7000 Thermal Treatment Unit and Flare Process Fugitives (5)	VOC	3.63	-
		HRVOC	0.14	-
B21CT960	Cooling Tower (5)	PM	3.14	-
		PM_{10}	3.14	-
		HRVOC	0.11	-
B19CT490	Cooling Tower (5)	PM	0.13	-
		PM_{10}	0.13	-

Emission Sources - Maximum Allowable Emission Rates

B19FU1, B19FU5, B19FU6, B19FU7, B19FU9, B21FU1, B23FU2, B23FU8, B68FU1, B70FU1, B21CT960 and B19CT490	Fugitive Emissions Source Group Cap (5)	VOC	-	60.74
		HRVOC	-	7.79
		Cl_2	-	3.80
		HCl	-	10.09
		Refrigerant	-	3.20
		Acetone	-	2.01
		PM	-	5.26
		PM_{10}	-	5.26
B19LR9	B-1900 Loading Rack	VOC	0.14	-
B23LR8	Soil Fumigants Loading Rack	VOC	1.81	-
B68LR1	B-6800 Loading Rack	VOC	5.99	-
		HRVOC	0.93	-
B19LR9, B23LR8 and B68LR1	Loading Rack Emissions Source Group Cap	VOC	-	1.91
		HRVOC	-	0.02
B23SV220	V-220B Scrubber Vent Stack	HCl	0.01	0.01
B23MSS1	B-2300 Maintenance, Startup and Shutdown	VOC	14.06	-
		SO_2	3.28	-
		HCl	29.82	-
		NO_x	92.14	-
		CO	635.73	-
		Acetone	1.05	-
		HRVOC	145.78	-

Emission Sources - Maximum Allowable Emission Rates

B68MSS1	B-6800 Maintenance, Startup and Shutdown	VOC	14.06	-
		SO_2	3.28	-
		HCl	29.82	-
		NO_x	92.14	-
		CO	635.73	-
		Acetone	1.05	-
		HRVOC	145.78	-
MSS Emissions Source Group Cap		VOC	14.06	2.97
		SO_2	3.28	0.04
		HCl	29.82	0.37
		NO_x	92.14	21.22
		CO	635.73	109.20
		Acetone	1.05	0.69
		HRVOC	145.78	(6)

Emission Sources - Maximum Allowable Emission Rates

Epoxy Intermediates Routine Emissions Compliance Cap	VOC	19.73	62.74
	HRVOC	2.55	(6)
	NO_x	26.87	63.75
	CO	99.04	182.47
	SO_2	3.68	0.19
	Cl_2	3.35	14.51
	HCl	2.59	10.79
	Pb	0.04	0.04
	Hg	0.04	0.04
	Refrigerant	0.79	3.20
	Acetone	2.20	5.25
	PM	8.54	30.46
	PM_{10}	8.54	30.46
Routine and MSS Cumulative Cap (6)	HRVOC	-	9.10

(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 § 101.1
HRVOC - highly reactive volatile organic compounds as defined in 30 TAC § 115.10
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
CO - carbon monoxide
Cl_2 - chlorine
HCl - hydrogen chloride
Pb - lead
Hg - mercury
Refrigerant - Refrigerant R-11, Refrigerant R-22, Refrigerant R-123

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Emission Sources - Maximum Allowable Emission Rates

(6) Annual HRVOC Routine and MSS emissions are limited by the Routine and MSS Cumulative Cap emission rate.

Date: _____