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 (1)	Source Name (2)	Air Contaminant (3)	Emissio	on Rates
			lbs/hour	TPY (4)
Combustion Device E	missions			·
B19S2	F-210 Thermal Treatment Unit	со	9.59	31.51
	Scrubber Vent Stack	NO _x	4.40	19.27
		SO ₂	0.04	0.02
		Pb	0.01	0.01
		Hg	0.01	0.01
		Cl ₂	1.14	5.00
		HCI	0.75	3.30
		Acetone	0.01	0.03
		РМ	4.07	17.83
		PM ₁₀	4.07	17.83
		PM _{2.5}	4.07	17.83
	HRVOC	0.01	**	
		VOC (7)	1.76	7.71
B23S826	Heater Vent Stack	со	0.78	0.16
	NO _x	0.92	0.18	
	SO ₂	0.13	0.01	
	Pb	0.01	0.01	
		Hg	0.01	0.01
		РМ	0.07	0.01
		PM ₁₀	0.07	0.01

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		PM _{2.5}	0.07	0.01
		voc	0.05	0.01
B23F865 FS-865 Flare, ALCL2 Process	со	30.93	32.70	
	. , , , , , , , , , , , , , , , , , , ,	NO _x	5.95	6.27
		SO ₂	1.33	0.02
		Cl ₂	0.01	0.01
		HCI	0.04	0.01
	HRVOC	0.93	**	
	VOC (7)	1.33	0.49	
B68S3	F-3 Heater Vent Stack	со	0.71	0.14
		NO _x	0.84	0.17
	SO ₂	0.12	0.01	
		Pb	0.01	0.01
		Hg	0.01	0.01
		PM	0.06	0.01
	PM ₁₀	0.06	0.01	
	PM _{2.5}	0.06	0.01	
		voc	0.05	0.01
B70S2	B70S2 FTB-603 Thermal Treatment Unit Scrubber Vent Stack	со	6.44	28.19
		NO _x	4.00	17.52
	SO ₂	0.12	0.07	
		Pb	0.01	0.01
		Hg	0.01	0.01
		Cl ₂	1.78	7.82

		HCI	0.87	3.80
		РМ	0.91	3.98
		PM ₁₀	0.91	3.98
		PM _{2.5}	0.91	3.98
		HRVOC	0.01	**
		VOC (7)	0.86	3.51
B70F1	Flare Stack 101	со	30.15	32.06
		NO _x	5.86	6.23
		SO ₂	1.33	0.02
		Cl ₂	0.02	0.01
		HCI	0.60	0.02
		HRVOC	0.93	**
		VOC (7)	0.43	0.43
Fugitive Emissions				
B19FU1	Epichlorohydrin 1 Process Fugitives (5)	voc	2.05	-
B19FU5	EPI 1 Dichlorohydrin Process Fugitives (5)	VOC	1.98	-
		HRVOC	0.02	-
		Refrigerant	0.21	-
B19FU6	NW Tank Farm, Allyl Chloride Tank, Epichlorohydrin Tank and Crude Trichloropropane Tank Fugitives (5)	VOC	0.66	-
B19FU9	B-1900 Loading Rack Fugitives (5)	VOC	0.07	
B21FU1	B-2100 Epichlorohydrin Fugitives and HOCI Fugitives (5)	Cl ₂	0.01	-
B23FU2	Allyl Chloride, and Epichlorohydrin	VOC	4.25	-
	Process Area Fugitives	HRVOC	2.66	-
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		Refrigerant	0.28	-
B23FU8	B-2300 Loading Rack Fugitives (5)	VOC	0.72	-
B68FU1	Allyl Chloride and Allyl PDC Process Fugitives	VOC (7)	7.45	-
	(5)	HRVOC	0.61	-
		Cl ₂	0.60	-
		HCI	1.00	-
		Refrigerant	0.21	-
B70FU1	B-7000 Thermal Treatment Unit and	VOC (7)	4.07	-
	Flare Process Fugitives (5)	HRVOC	0.23	-
		Cl ₂	0.02	-
		HCI	0.12	-
B19FU1, B19FU5, B19FU6, B19FU9,	Fugitive Emissions Source Group Cap (5)	VOC (7)	-	39.90
B21FU1, B23FU2, B23FU8, B68FU1,		HRVOC	-	6.60
B70FU1		Cl ₂	-	3.70
		HCI	-	4.04
		Refrigerant	-	3.20
Loading Rack Emissi	ons			
B19LR9	B-1900 Loading Rack, Uncontrolled	voc	0.14	0.24
B23LR8	Epoxy Intermediates Loading Rack	voc	1.81	0.93
B68LR1	B-6800 Loading Rack	VOC (7)	5.99	0.74
		HRVOC	0.93	0.02
Process and Other Er	missions			
B23SV220	HCL Process Tank V- 123 & V-220B Scrubber Vent Stack	HCI	0.01	0.02
B21CT960	Cooling Tower	VOC (8)	1.25	2.73
	•	•	•	•

PM
PM2.5 0.01 0.01
Cooling Tower
PM 0.51 1.07
PM ₁₀
PM _{2.5} 0.01 0.01 B34FU01 SOHO Fugitive Area (5) VOC 0.07 0.29 MSS Emissions B-2300
B34FU01 SOHO Fugitive Area (5) VOC 0.07 0.29 MSS Emissions B23MSS1 B-2300 Maintenance, Startup and Shutdown VOC 14.06 - HRVOC 145.78 - SO2 3.28 - HCI 29.82 - NOx 92.14 -
MSS Emissions B23MSS1 B-2300 Maintenance, Startup and Shutdown VOC 14.06 - HRVOC 145.78 - SO2 3.28 - HCI 29.82 - NOx 92.14 -
B23MSS1 B-2300 Maintenance, Startup and Shutdown
Maintenance, Startup and Shutdown HRVOC 145.78 - SO ₂ 3.28 - HCl 29.82 - NO _x 92.14 -
And Shutdown HRVOC 145.78 - SO ₂ 3.28 - HCI NO _x 92.14 -
HCI 29.82 - NO _x 92.14 -
NO _x 92.14 -
CO 635.73 -
i
Acetone 1.05 -
B68MSS1 B-6800 Maintenance, Startup and Shutdown VOC 14.06 -
HRVOC 145.78 -
SO ₂ 3.28 -
HCI 29.82 -
NO _x 92.14 -
CO 635.73 -
Acetone 1.05 -

Epoxy MSS Emissions Source Group Cap	voc	14.06	2.97
	HRVOC	145.78	**
	SO ₂	3.28	0.04
	HCI	29.82	0.37
	NO _x	92.14	20.92
	со	635.73	107.03
	Acetone	1.05	0.69
** Routine and MSS Cumulative Cap (6)	HRVOC	-	10.85

- (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

SO₂ - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$ - particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

Cl₂ - chlorine

HCl - hydrogen chloride

Pb - lead Hg - mercury

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.
- (6) Excluding EPNs with specified annual HRVOC limits, annual HRVOC Routine and MSS emissions are limited by the Routine and MSS Cumulative Cap emission rate.
- (7) VOC does not include HRVOC emissions.
- (8) VOC includes HRVOC emissions.

Date:	July 10, 2018