### 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)	Emission Rates	
			lbs/hour	TPY (4)
<b>Combustion Device</b>	Emissions	•		
B19S2	F-210 Thermal Treatment Unit	со	9.59	-
	Treatment ont	NO <sub>x</sub>	4.40	-
		SO <sub>2</sub>	0.04	-
		Pb	0.01	-
		Hg	0.01	-
		Cl <sub>2</sub>	1.14	-
		HCI	0.75	-
		Acetone	0.01	-
		PM	4.07	-
		PM <sub>10</sub>	4.07	-
		HRVOC	0.01	-
		VOC (7)	1.76	-
B23S826	Heater Vent Stack	СО	0.78	-
		NO <sub>x</sub>	0.92	-
		SO <sub>2</sub>	0.13	-
		Pb	0.01	-
		Hg	0.01	-
		РМ	0.07	-
		PM <sub>10</sub>	0.07	-
		voc	0.05	-

B23F865	FS-865 Flare, ALCL2 Process	со	30.93	-
		NO <sub>x</sub>	5.95	-
		SO <sub>2</sub>	1.33	-
		Cl <sub>2</sub>	0.01	-
		HCI	0.04	-
		HRVOC	0.93	-
		VOC (7)	1.33	-
B68S3	F-3 Heater Vent Stack	со	0.71	-
		NO <sub>x</sub>	0.84	-
		SO <sub>2</sub>	0.12	-
		Pb	0.01	-
		Hg	0.01	-
		РМ	0.06	-
		PM <sub>10</sub>	0.06	-
		voc	0.05	-

B70S2	FTB-603 Thermal Treatment Unit	СО	6.44	-
	Scrubber Vent Stack	NO <sub>x</sub>	4.00	-
		SO <sub>2</sub>	0.12	-
		Pb	0.01	-
		Hg	0.01	-
		Cl <sub>2</sub>	1.78	-
		HCI	0.87	-
		РМ	0.91	-
		PM <sub>10</sub>	0.91	-
		HRVOC	0.01	-
		VOC (7)	0.86	-
B70F1	Flare Stack 101	со	30.15	-
		NO <sub>x</sub>	5.86	-
		SO <sub>2</sub>	1.33	-
		Cl <sub>2</sub>	0.02	-
		HCI	0.60	-
		HRVOC	0.93	-
		VOC (7)	0.43	-
B19S2, B23S826,	Combustion	СО	-	122.43-
B23F865, B68S3, B70S2 and B70F1	Emissions Source Group Cap, Routine	NO <sub>x</sub>	-	41.97
B7032 and B70F1		SO <sub>2</sub>	-	0.15
		Pb	-	0.04
		Hg	-	0.04
		Cl <sub>2</sub>	-	12.83
		HCI	-	7.11
		Acetone	-	0.03
		PM	-	21.84
		PM <sub>10</sub>	-	21.84

		HRVOC	-	(6)
		VOC (7)	-	12.11
Flare FS-801 E	missions		1	
B70F801	Propylene Dichloride	СО	35.03	-
	Processing Unit Nos.1 and 2 Flare FS-	NO <sub>x</sub>	6.88	-
	801, Routine	SO <sub>2</sub>	1.21	-
		HRVOC	4.77	-
		VOC (7)	5.05	-
B70F801	FS-801 Flare, MSS	СО	120.00	-
		NO <sub>x</sub>	11.61	-
		SO <sub>2</sub>	1.21	-
		HRVOC	145.78	-
		VOC (7)	14.06	-
B70F801	FS-801 Flare, Routine + MSS	со	-	62.21
		NO <sub>x</sub>	-	12.21
		SO <sub>2</sub>	-	0.14
		HRVOC	-	1.94
		VOC (7)	-	4.85
Fugitive Emiss	ions:			
B19FU1	Epichlorohydrin 1 Process Fugitives (5)	voc	3.81	-
	1 Toccss Fugitives (5)	HRVOC	0.01	-
		Cl <sub>2</sub>	0.11	-
B19FU5	EPI 1 Dichlorohydrin Process Fugitives (5)	voc	3.66	-
	1 100033 1 dgillve3 (0)	HRVOC	0.01	-
		Refrigerant	0.24	-
B19FU6	NW Tank Farm, Allyl Chloride Tank, Epichlorohydrin Tank and Crude Trichloropropane Tank Fugitives (5)	VOC	2.55	-

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B19FU7	Butylene Oxide Process Area	VOC	3.26	-
	Fugitives (5)	Cl <sub>2</sub>	0.02	-
B19FU9	B-1900 Loading Rack Fugitives (5)	VOC	0.03	-
B21FU1	B-2100 Epichlorohydrin Fugitives and HOCI Fugitives (5)	Cl <sub>2</sub>	0.14	-
B23FU2	Soil Fumigants, Allyl Chloride, and	voc	3.63	-
	Epichlorohydrin Process Area	HRVOC	2.50	-
	Fugitives (5)	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	VOC (7)	14.91	-
	Dichloride Nos. 1 & 2 Process Fugitives	HRVOC	2.97	-
	and Allyl PDC Process Fugitives (5)	Cl <sub>2</sub>	0.60	-
	Flocess Fugilives (3)	HCI	2.66	-
		Refrigerant	0.24	-
		Acetone	0.01	-
B70FU1	B-7000 Thermal Treatment Unit and	VOC (7)	3.63	-
	Flare Process Fugitives (5)	HRVOC	0.14	-
B21CT960	Cooling Tower (5)	РМ	3.14	-
		PM <sub>10</sub>	3.14	-
		HRVOC	0.11	-
B19CT490	Cooling Tower (5)	РМ	0.13	-
		PM <sub>10</sub>	0.13	-

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B19FU1, B19FU5, B19FU6, B19FU7, B19FU9, B21FU1, B23FU2, B23FU8,	Fugitive Emissions Source Group Cap	VOC (7)	-	60.74
	(5)	HRVOC	-	9.54
B68FU1, B70FU1, B21CT960 and		Cl <sub>2</sub>	-	3.80
B19CT490		HCI	-	10.41
		Refrigerant	-	3.20
		Acetone	-	2.01
		РМ	-	5.26
		PM <sub>10</sub>	-	5.26
Loading Rack Emiss	sions			•
B19LR9	B-1900 Loading Rack, Uncontrolled	voc	0.14	-
B23LR8	Soil Fumigants Loading Rack	voc	1.81	-
B68LR1	B-6800 Loading Rack	VOC (7)	5.99	-
		HRVOC	0.93	-
B19LR9, B23LR8 and B68LR1	Loading Rack Emissions Source	VOC (7)	-	1.91
and Boolki	Group Cap	HRVOC	-	0.02
Other Process Emis	sions			
B23SV220	HCL Process Tank V-123 & V-220B Scrubber Vent Stack	HCI	0.01	0.01
Epoxy Intermediates	Routine Emissions	VOC (7)	19.73	62.74
Compliance Cap		HRVOC	2.97	(6)
		NOx	26.87	63.75
		СО	99.04	182.47
		SO2	3.68	0.19
		CI2	3.35	14.51
		HCI	2.66	11.11
		Pb	0.04	0.04
		Hg	0.04	0.04
		Refrigerant	0.79	3.20
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		Acetone	2.20	5.25
		РМ	8.54	30.46
		PM10	8.54	30.46
MSS Emissions	;			
B23MSS1	B-2300 Maintenance, Startup	voc	14.06	-
	and Shutdown	SO <sub>2</sub>	3.28	-
		HCI	29.82	-
		NO <sub>x</sub>	92.14	-
		со	635.73	-
		Acetone	1.05	-
		HRVOC	145.78	-
B68MSS1	B-6800 Maintenance, Startup and	voc	14.06	-
	Shutdown	SO <sub>2</sub>	3.28	-
		HCI	29.82	-
		NO <sub>x</sub>	92.14	-
		со	635.73	-
		Acetone	1.05	-
		HRVOC	145.78	-
MSS Emissions (excludes FS-80	Source Group Cap O1 Flare MSS emissions)	voc	14.06	2.97
(excludes 1 3-001 Fiare Mos emissions)		SO <sub>2</sub>	3.28	0.04
		HCI	29.82	0.37
		NO <sub>x</sub>	92.14	20.92
		со	635.73	107.03
		Acetone	1.05	0.69
		HRVOC	145.78	(6)
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<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - 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<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

Cl<sub>2</sub> - 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) Annual HRVOC Routine and MSS emissions are limited by the Routine and MSS Cumulative Cap emission rate.
- (7) VOC does not include HRVOC emissions.

Date: June 29, 2017