#### 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	
NO. (1)			lbs/hour	TPY (4)
Combustion Device	e Emissions			
B19S2	F-210 Thermal	со	9.59	-
		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 0.73	0.01	-
		PM	4.07	-
		PM <sub>10</sub>	4.07	-
		HRVOC	0.01	-
		VOC (7)	1.76	-

D22C026	Heater Vent Stack			
B23S826	Healer Veril Slack	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	-
	1100035	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	-

		T		
B70S2	FTB-603 Thermal Treatment Unit Scrubber Vent Stack	СО	6.44	-
		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	-
		PM	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
Brosz ana Broi i		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	Emissions			,
B70F801	Propylene Dichloride	СО	35.03	-
	Processing Unit Nos.1 and 2 Flare FS-801,	NO <sub>x</sub>	6.88	-
	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 Emis	sions:			
B19FU1	Epichlorohydrin 1 Process Fugitives (5)	voc	3.81	-
	1 Toccos i agraves (5)	HRVOC	0.01	-
		Cl <sub>2</sub>	0.11	-
B19FU5	EPI 1 Dichlorohydrin Process Fugitives (5)	voc	3.66	-
	1 Toccos i agraves (5)	HRVOC	0.01	-
		Refrigerant	0.24	-
B19FU6	NW Tank Farm, Allyl Chloride Tank, Epichlorohydrin Tank and Crude Trichloropropane Tank Fugitives (5)	voc	2.55	-

B19FU7	Rutylone Ovide	1400	2.22	
B19FU7	Butylene Oxide Process Area Fugitives (5)	VOC	3.26	-
		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 Fugitives	HRVOC	2.50	-
	(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 Dichloride Nos. 1 & 2 Process Fugitives and Allyl PDC Process Fugitives (5)	Cl <sub>2</sub>	0.60	-
		HCI	2.50	-
		Refrigerant	0.24	-
		HRVOC	2.50	-
		Acetone	0.01	-
		VOC (7)	14.91	-
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	-

B19FU1, B19FU5, B19FU6, B19FU7, B19FU9, B21FU1, B23FU2, B23FU8,	Fugitive Emissions Source Group Cap (5)	VOC (7)	-	60.74
	Source Group Cup (3)	HRVOC	-	7.79
B68FU1, B70FU1, B21CT960 and		Cl <sub>2</sub>	-	3.80
B19CT490		HCI	-	10.09
		Refrigerant	-	3.20
		Acetone	-	2.01
		РМ	-	5.26
		PM <sub>10</sub>	-	5.26
Loading Rack Emis	sions			,
	B-1900 Loading Rack, Uncotrolled	voc	0.14	-
	Soil Fumigants Loading Rack	voc	1.81	-
B68LR1	B-6800 Loading Rack	VOC (7)	5.99	-
		HRVOC	0.93	-
	Loading Rack Emissions Source	VOC (7)	-	1.91
	Group Cap	HRVOC	-	0.02
Other Process Emis	ssions			,
	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	2.55	(6)
		NOx	26.87	63.75
		СО	99.04	182.47
		SO2	3.68	0.19
		CI2	3.35	14.51
		HCI	2.59	10.79
		Pb	0.04	0.04
		Hg	0.04	0.04

		Acetone	2.20	5.25
		PM	8.54	30.46
		PM10	8.54	30.46
MSS Emissions				
B23MSS1	B-2300 Maintenance, Startup and Shutdown	voc	14.06	-
		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 Shutdown	voc	14.06	-
Stat		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 So (excludes FS-801 F	ource Group Cap Flare MSS emissions)	voc	14.06	2.97
(0.1.0.10.10.10.10.10.10.10.10.10.10.10.1		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	-	8.58

<sup>(1)</sup> 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<sub>10</sub> and PM<sub>2.5</sub>, as

represented

PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as

represented

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: May 9, 2017