### Permit Number 3295

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

<b>Emission Point No. (1)</b>	Source Name (2)	Air Contaminant Name	Emission Rates	
		(3)	lbs/hour	TPY (4)
B-1	Boiler	СО	0.58	2.52
		NO <sub>X</sub>	0.69	3.00
		PM	0.05	0.23
		PM <sub>10</sub>	0.05	0.23
		PM <sub>2.5</sub>	0.05	0.23
		SO <sub>2</sub>	0.19	0.81
		VOC	0.04	0.17
F-1	Aromax Reactor Preheater	СО	0.48	2.10
		NO <sub>X</sub>	0.57	2.50
		PM	0.04	0.19
		PM <sub>10</sub>	0.04	0.19
		PM <sub>2.5</sub>	0.04	0.19
		SO <sub>2</sub>	0.16	0.68
		VOC	0.03	0.14
F-2	Aromax Reactor Preheater	со	0.48	2.10
		NO <sub>X</sub>	0.57	2.50
		PM	0.04	0.19
		PM <sub>10</sub>	0.04	0.19
		PM <sub>2.5</sub>	0.04	0.19
		SO <sub>2</sub>	0.16	0.68
		VOC	0.03	0.14
F-3	Aromax F-3	со	0.21	0.90
		NO <sub>X</sub>	0.25	1.10
		РМ	0.02	0.08
		PM <sub>10</sub>	0.02	0.08
Project Number: 270370		PM <sub>2.5</sub>	0.02	0.08

		SO <sub>2</sub>	0.07	0.68
		VOC	0.01	0.14
F-4	Aromax F-4	СО	0.21	0.90
		NO <sub>X</sub>	0.25	1.10
		РМ	0.02	0.08
		PM <sub>10</sub>	0.02	0.08
		PM <sub>2.5</sub>	0.02	0.08
		SO <sub>2</sub>	0.07	0.68
		VOC	0.01	0.14
H-1	HDS Preheater	СО	0.77	3.36
		NO <sub>x</sub>	0.91	4.00
		РМ	0.07	0.30
		PM <sub>10</sub>	0.07	0.30
		PM <sub>2.5</sub>	0.07	0.30
		SO <sub>2</sub>	0.25	1.08
		VOC	0.05	0.22
H-2	Hex Treater Preheater	СО	0.14	0.63
		NO <sub>X</sub>	0.17	0.74
		РМ	0.01	0.06
		PM <sub>10</sub>	0.01	0.06
		PM <sub>2.5</sub>	0.01	0.06
		SO <sub>2</sub>	0.05	0.02
		VOC	0.01	0.04
H-3	Hot Oil Heater	СО	0.98	4.29
		NO <sub>X</sub>	1.17	5.10
		РМ	0.09	0.39
		PM <sub>10</sub>	0.09	0.39
		PM <sub>2.5</sub>	0.09	0.39
		SO <sub>2</sub>	0.32	1.38
Project Number: 251256		voc	0.06	0.28
H-101	T-15 Reboiler	СО	1.38	6.05
		NOv	1.64	7 20

		PM <sub>10</sub>	0.13	0.55
		PM <sub>2.5</sub>	0.13	0.55
		SO <sub>2</sub>	0.45	1.95
		VOC	0.09	0.40
H-102	T-16 Reboiler	co	1.15	5.05
102	1 10 110,00101	NOx	1.40	6.03
		PM	0.10	0.46
		PM <sub>10</sub>	0.10	0.46
			0.10	0.46
		PM <sub>2.5</sub>		
		SO <sub>2</sub>	0.37	1.62
		VOC	0.08	0.33
H-103	Hot Oil Heater	СО	0.86	3.78
		NO <sub>x</sub>	4.50	4.50
		PM	0.34	0.34
		PM <sub>10</sub>	0.34	0.34
		PM <sub>2.5</sub>	0.34	0.34
		SO <sub>2</sub>	1.22	1.22
		VOC	0.25	0.25
H-104	T-4 Reboiler	СО	0.53	2.30
		NO <sub>X</sub>	0.63	2.74
		РМ	0.05	0.21
		PM <sub>10</sub>	0.05	0.21
		PM <sub>2.5</sub>	0.05	0.21
		SO <sub>2</sub>	0.17	0.74
		VOC	0.03	0.15
H-105	T-17 Reboiler	СО	0.05	0.22
		NO <sub>x</sub>	0.06	0.27
		PM	0.01	0.02
		PM <sub>10</sub>	0.01	0.02
Project Number: 251256		PM <sub>2.5</sub>	0.01	0.02
roject ivariiber. 201200		SO <sub>2</sub>	0.02	0.08
		VOC	0.01	0.02

H-106	T-8 Reboiler	со	0.26	1.13
		NO <sub>x</sub>	0.31	1.34
		PM	0.02	0.10
		PM <sub>10</sub>	0.02	0.10
		PM <sub>2.5</sub>	0.02	0.10
		SO <sub>2</sub>	0.07	0.33
		VOC	0.02	0.07
H-107	T-9 Reboiler	СО	0.19	0.84
		NO <sub>X</sub>	0.23	1.00
		РМ	0.02	0.08
		PM <sub>10</sub>	0.02	0.08
		PM <sub>2.5</sub>	0.02	0.08
		SO <sub>2</sub>	0.06	0.27
		voc	0.01	0.06
H-108	T-3 Reboiler/T-27 Reboiler	СО	0.21	0.92
		NO <sub>X</sub>	0.25	1.10
		РМ	0.02	0.08
		PM <sub>10</sub>	0.02	0.08
		PM <sub>2.5</sub>	0.02	0.08
		SO <sub>2</sub>	0.07	0.30
		VOC	0.02	0.06
H-109	Sieve Regeneration Heater	СО	0.05	0.22
		NO <sub>X</sub>	0.06	0.27
		РМ	0.01	0.02
		PM <sub>10</sub>	0.01	0.02
		PM <sub>2.5</sub>	0.01	0.02
		SO <sub>2</sub>	0.02	0.08
		VOC	0.01	0.02
H-110	T-1 Reboiler	СО	0.20	0.86
Project Number: 251256		NO <sub>X</sub>	0.23	1.02
		РМ	0.02	0.08
		PM <sub>40</sub>	0.02	0.08

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		SO <sub>2</sub>	0.06	0.28
		voc	0.02	0.06
H-111	T-11 Reboiler	со	0.13	0.56
		NO <sub>X</sub>	0.15	0.67
		РМ	0.01	0.05
		PM <sub>10</sub>	0.01	0.05
		PM <sub>2.5</sub>	0.01	0.05
		SO <sub>2</sub>	0.04	0.16
		VOC	0.01	0.04
H-113	AA HDS Preheater	СО	0.77	3.36
		NOx	0.91	4.00
		РМ	0.07	0.30
		PM <sub>10</sub>	0.07	0.30
		PM <sub>2.5</sub>	0.07	0.30
		SO <sub>2</sub>	0.25	1.08
		VOC	0.05	0.22
H-116	T-13 Reboiler	со	0.38	1.68
		NO <sub>X</sub>	0.46	2.00
		РМ	0.03	0.15
		PM <sub>10</sub>	0.03	0.15
		PM <sub>2.5</sub>	0.03	0.15
		SO <sub>2</sub>	0.12	0.54
		VOC	0.03	0.11
H-117	AA Hydrogenation Preheater	со	0.38	1.68
		NO <sub>X</sub>	0.46	2.00
		РМ	0.03	0.15
		PM <sub>10</sub>	0.03	0.15
		PM <sub>2.5</sub>	0.03	0.15
Project Number: 251256		SO <sub>2</sub>	0.12	0.54
	T.04.D.1. ''	VOC	0.03	0.11

		РМ	0.07	0.30
		PM <sub>10</sub>	0.07	0.30
		PM <sub>2.5</sub>	0.07	0.30
		SO <sub>2</sub>	0.25	1.09
		VOC	0.05	0.22
H-243	T-24 Reboiler	СО	1.03	4.51
		NO <sub>X</sub>	0.61	2.68
		РМ	0.09	0.41
		PM <sub>10</sub>	0.09	0.41
		PM <sub>2.5</sub>	0.09	0.41
		SO <sub>2</sub>	0.34	1.47
		voc	0.07	0.30
H-253	T-25 Reboiler	СО	0.38	1.68
		NO <sub>X</sub>	0.46	2.00
		РМ	0.03	0.15
		PM <sub>10</sub>	0.03	0.15
		PM <sub>2.5</sub>	0.03	0.15
		SO <sub>2</sub>	0.12	0.54
		VOC	0.03	0.11
H-263	T-26 Reboiler	СО	0.77	3.37
		NO <sub>X</sub>	0.46	2.00
		РМ	0.07	0.30
		PM <sub>10</sub>	0.07	0.30
		PM <sub>2.5</sub>	0.07	0.30
		SO <sub>2</sub>	0.25	1.09
		VOC	0.05	0.22
H-283	T-28 Reboiler	со	0.82	3.57
		NO <sub>X</sub>	0.49	2.13
		РМ	0.07	0.32
Project Number: 251256		PM <sub>10</sub>	0.07	0.32
		PM <sub>2.5</sub>	0.07	0.32

		VOC	0.05	0.22
H-293	T-29 Reboiler	со	0.66	2.89
		NO <sub>X</sub>	0.79	3.44
		PM	0.06	0.26
		PM <sub>10</sub>	0.06	0.26
		PM <sub>2.5</sub>	0.06	0.26
		SO <sub>2</sub>	0.21	0.93
		voc	0.04	0.19
H-303	Heater H-303	СО	1.28	5.61
		NO <sub>X</sub>	1.53	6.69
		РМ	0.12	0.51
		PM <sub>10</sub>	0.12	0.51
		PM <sub>2.5</sub>	0.12	0.51
		SO <sub>2</sub>	0.41	1.81
		voc	0.08	0.37
H-323	T-32 Reboiler	со	0.74	3.25
		NO <sub>X</sub>	0.88	3.86
		PM	0.07	0.29
		PM <sub>10</sub>	0.07	0.29
		PM <sub>2.5</sub>	0.07	0.29
		SO <sub>2</sub>	0.24	1.05
		VOC	0.05	0.21
H-343	Heater H-343	со	1.49	6.53
		NO <sub>X</sub>	1.78	7.77
		РМ	0.13	0.59
		PM <sub>10</sub>	0.13	0.59
		PM <sub>2.5</sub>	0.13	0.59
		SO <sub>2</sub>	0.48	2.11
		voc	0.10	0.43
Project Number: 251256 H-353	Heater H-353	СО	2.06	9.02
		NO <sub>X</sub>	2.45	10.74

		PM <sub>10</sub>	0.19	0.82
		PM <sub>2.5</sub>	0.19	0.82
		SO <sub>2</sub>	0.66	2.91
		VOC	0.13	0.59
H-383	T-38 Reboiler	со	0.82	3.61
		NO <sub>X</sub>	1.00	4.38
		РМ	0.07	0.33
		PM <sub>10</sub>	0.07	0.33
		PM <sub>2.5</sub>	0.07	0.33
		SO <sub>2</sub>	0.26	1.16
		VOC	0.05	0.24
H-403	T-40 Reboiler	со	2.22	9.74
		NO <sub>X</sub>	2.70	11.83
		РМ	0.20	0.88
		PM <sub>10</sub>	0.20	0.88
		PM <sub>2.5</sub>	0.20	0.88
		SO <sub>2</sub>	0.71	3.12
		VOC	0.15	0.64
H-423	T-42 Reboiler	со	0.45	1.98
		NO <sub>X</sub>	0.55	2.41
		РМ	0.04	0.18
		PM <sub>10</sub>	0.04	0.18
		PM <sub>2.5</sub>	0.04	0.18
		SO <sub>2</sub>	0.15	0.64
		voc	0.03	0.13
H-433	T-43 Reboiler	СО	0.91	3.97
		NOx	1.10	4.82
		РМ	0.08	0.36
		PM <sub>10</sub>	0.08	0.36
Project Number: 251256		PM <sub>2.5</sub>	0.08	0.36
		SO <sub>2</sub>	0.29	1.27

H-700	HDS Heater	со	1.73	7.57
		NO <sub>X</sub>	2.10	9.20
		РМ	0.16	0.69
		PM <sub>10</sub>	0.16	0.69
		PM <sub>2.5</sub>	0.16	0.69
		SO <sub>2</sub>	0.55	2.43
		VOC	0.11	0.50
RH-1	Reformer Reactor Preheater	со	1.65	7.21
		NO <sub>X</sub>	2.00	8.76
		РМ	0.15	0.65
		PM <sub>10</sub>	0.15	0.65
		PM <sub>2.5</sub>	0.15	0.65
		SO <sub>2</sub>	0.53	2.31
		VOC	0.11	0.47
RH-2	Reformer Reactor Preheater	со	0.82	3.61
		NO <sub>X</sub>	1.00	4.38
		PM	0.07	0.33
		PM <sub>10</sub>	0.07	0.33
		PM <sub>2.5</sub>	0.07	0.33
		SO <sub>2</sub>	0.26	1.16
		VOC	0.05	0.24
RH-3	Reformer Reactor Preheater	со	0.66	2.89
		NO <sub>X</sub>	0.80	3.50
		РМ	0.06	0.26
		PM <sub>10</sub>	0.06	0.26
		PM <sub>2.5</sub>	0.06	0.26
		SO <sub>2</sub>	0.21	0.92
		voc	0.04	0.19
F-10	Flare F-10	со	14.36	8.47
Project Number: 251256		NO <sub>X</sub>	2.05	1.42
		voc	39.91	12.88

F-11	Flare Pilot	со	0.07	0.29
		NO <sub>x</sub>	0.02	0.07
		voc	<0.01	0.02
		SO <sub>2</sub>	<0.01	<0.01
DR-1	Drum Loading	voc	16.86	2.77
MAINFUG	Main Plant Truck Loading Fugitives (5)	voc	76.60	18.11
FUG	Process Fugitives (5)	VOC	4.30	18.83
WESTFUG	West Plant Truck Loading Losses Fugitives (5)	voc	0.19	0.07
TK-1	Tank 1	VOC	1.72	2.13
TK-2	Tank 2	VOC	1.40	1.00
TK-4	Tank 4	VOC	0.66	2.89
TK-8	Tank 8	voc	0.11	0.02
TK-9	Tank 9	voc	0.06	0.02
TK-11	Tank 11	voc	0.69	0.41
TK-12	Tank 12	voc	0.69	0.41
TK-13	Tank 13	voc	0.69	0.41
TK-14	Tank 14	voc	0.69	0.41
TK-40	Tank 40	voc	1.68	1.08
TK-41	Tank 41	voc	1.68	1.08
TK-48	Tank 40	voc	0.42	1.83
TK-52	Tank 52	voc	5.02	3.00
TK-55	Tank 55	voc	1.70	2.00
TK-56	Tank 56	voc	1.20	2.20
TK-57	Tank 57	voc	1.13	4.69
TK-61	Tank 61	VOC	1.15	4.76
TK-62	Tank 62	voc	1.01	1.40
TK-63	Tank 63	VOC	0.65	0.94
TK-64	Tank 64	voc	1.11	1.00
TK-65 Project Number: 251256	Tank 65	VOC	0.26	0.73
TK-66	Tank 66	voc	0.91	3.98
TK-67	Tank 67	VOC	0.01	0.01

TK-68	Tank 68	VOC	0.01	0.01
TK-95	Tank 95	VOC	0.76	0.19
TK-96	Tank 96	VOC	0.76	0.19

(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

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

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

CO - carbon monoxide

(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.

Date: September 13, 2	2019
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Project Number: 251256