Permit Numbers 6056 and PSDTX1062M2

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.	FIN	FIN Source Name (2)	Air Contaminant	Emission	Rates
(1)	T IIV		Name (3)	lbs/hour	TPY (4)
FCOKE2	COKE 2FE	COKE 2FE DCU Coke Handling (5)	PM	0.01	0.01
			PM ₁₀	0.01	0.01
			$PM_{2.5}$	0.01	0.01
FCOKEX	COKE X FE	Coke Stockpile Surge Pad (5)	PM	0.33	1.45
			PM_{10}	0.17	0.72
			$PM_{2.5}$	0.17	0.72
FKCRU5 FE	CRU5 FE	#5 CRU Cooling Tower	VOC	2.31	4.34
			Benzene	0.01	0.01
			Chlorine	0.28	1.25
FKDCU2 FE	DCU2 FE	DCU 2 Cooling Tower	VOC	1.71	3.21
			Benzene	0.01	0.01
			Chlorine	0.21	0.92
FKPS 4 FE	PS 4 FE	Power Station Cooling Tower	Chlorine	0.04	0.17
FKVPS 5 FE	VPS 5 FE	VPS Cooling Tower	VOC	1.64	3.07
			Benzene	0.01	0.01
			Chlorine	0.20	0.88
FKARU3	ARU 3 FE	ARU No. 3 Cooling Tower (5)	VOC	0.01	0.04
			Benzene	0.01	0.01
			Chlorine	0.01	0.06
EDCU2	EDCU2	DCU No. 2 Flare Stack	NO _x	0.03	0.11
			VOC	0.01	0.01
			SO_2	0.01	0.01
			CO	0.18	0.81

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Emission Point No.	EIN	FIN Source Name (2)	Air Contaminant	Emission Rates		
(1)	Till		Name (3)	lbs/hour	TPY (4)	
EHCU2	HCU NO2FS	HCU No. 2 Flare Stack	NO _x	0.02	0.09	
			VOC	0.01	0.01	
			SO_2	0.01	0.01	
			CO	0.15	0.64	
EVPS5	VPS NO ₅ FS	VPS No. 5 Flare Stack	NO _x	0.02	0.07	
			VOC	0.01	0.01	
			SO_2	0.01	0.01	
			СО	0.11	0.48	
ESBU2	SBU2	SBU2 Flare Stack	NO _x	0.02	0.07	
			VOC	0.01	0.01	
			SO_2	0.01	0.01	
			CO	0.11	0.48	
FARU1	ARU 1 FE	RU 1 FE ARU No. 1 Fugitive Emissions	VOC	0.14	0.63	
			Benzene	0.01	0.01	
			Hydrogen Sulfide	0.22	0.96	
FARU2	ARU2 FE	ARU2 FE ARU No. 2 Fugitive Emissions	VOC	0.08	0.33	
			Benzene	0.01	0.01	
			Hydrogen Sulfide	0.11	0.48	
FARU3	ARU 3 FE	ARU No.3 Fugitive Emissions	VOC	0.08	0.36	
			Benzene	0.01	0.01	
			Hydrogen Sulfide	0.08	0.37	
FSWS1	ARU 3 FE	ARU No.3 Fugitive Emissions	VOC	0.01	0.01	
			Hydrogen Sulfide	0.16	0.72	
			Ammonia	0.01	0.01	
FARU4	ARU 4 FE	ARU No.4 Fugitive Emissions	VOC	0.14	0.16	
			Benzene	0.01	0.01	
			Hydrogen Sulfide	0.04	0.17	

Emission Point No.	EIN	FIN Source Name (2)	Air Contaminant	Emission	Rates
(1)	FIN		Name (3)	lbs/hour	TPY (4)
FSRU2	SRU 2 FE	RU 2 FE SRU No.2 Fugitive Emissions	SO_2	0.01	0.04
			Hydrogen Sulfide	0.01	0.05
FSRU3	SRU 3 FE	SRU No.3 Fugitive Emissions	SO ₂	0.01	0.04
			Hydrogen Sulfide	0.01	0.05
FSRU4	SRU 4 FE	SRU No.4 Fugitive Emissions	SO_2	0.06	0.24
			Hydrogen Sulfide	0.06	0.26
CEP-FUG	Various	Fugitives Group	VOC	33.61	147.66
			SO_2	0.02	0.28
			CO	0.02	0.09
			Benzene	0.05	0.23
			Hydrogen Sulfide	0.74	3.26
			Ammonia	0.01	0.01
FTGTU1	TGTU 1 FE	Tail Gas Treating Unit No.1 Incinerator Fugitives	SO_2	0.01	0.03
			CO	0.01	0.06
			Hydrogen Sulfide	e 0.01 e 0.01 e 0.06 e 0.06 33.61 0.02 0.05 e 0.74 0.01 0.01 0.01 0.01 0.01 0.02	0.06
FTGTU2	TGTU 2 FE	Tail Gas Treating Unit No.2	SO_2	0.01	0.03
		Incinerator Fugitives	CO	0.02	0.07
			Hydrogen Sulfide	0.01	0.07
SCRU5-1	CRU5INTHT1	#5 CRU Platformer No.1	NOx	17.33	42.66
		Intermediate Heater	VOC	2.67	2.30
			SO_2	18.44	37.82
			СО	16.94	58.41
			PM	3.69	12.71
			PM ₁₀	3.69	12.71
			PM _{2.5}	3.69	12.71

Emission Point No.	FIN	FIN Source Name (2)	Air Contaminant	Emission	Rates
(1)	PIN		Name (3)	lbs/hour	TPY (4)
SCRU5-2	CRU5INTHT2	#5 CRU Platformer No.2	NOx	12.39	27.51
		Intermediate Heater	VOC	1.91	1.48
			SO_2	13.19	24.39
			CO	12.12	37.67
			PM	2.64	8.20
			PM ₁₀	2.64	8.20
			$PM_{2.5}$	2.64	8.20
SCRU5-2	CRU5INTHT3	#5 CRU Platformer No.3	NOx	7.70	21.04
		Intermediate Heater	VOC	1.19	1.13
			SO_2	8.20	18.65
			CO	7.53	28.81
			PM	1.64	6.27
			PM_{10}	1.64	6.27
			$PM_{2.5}$	1.64	6.27
SNHTU2-1	NHTU2CHT	HTU2CHT Naphtha Hydrotreater CHG Heater	NOx	7.25	19.88
			VOC	1.12	2.14
			SO_2	7.71	17.63
			CO	7.09	27.22
			PM	1.54	5.93
			PM_{10}	1.54	5.93
			PM _{2.5}	1.54	5.93
SCRU5-1	CRU5PLATHT	#5 CRU Platformer Heater	NOx	13.93	38.15
			VOC	2.15	2.06
			SO_2	14.83	33.82
			СО	13.62	52.23
			PM	2.97	11.37
			PM ₁₀	2.97	11.37
			$PM_{2.5}$	2.97	11.37

Emission Point No.	FIN	FIN Source Name (2)	Air Contaminant	Emission	Rates
(1)	TIN		Name (3)	lbs/hour	TPY (4)
SHCU2-1	HCU2H1A	HCU No.2 1st Stage Charge Set A	NOx	2.32	6.66
		Heater	VOC	0.36	0.72
			SO_2	2.47	5.91
			CO	2.27	9.12
			PM	0.49	1.99
			PM_{10}	0.49	1.99
			$PM_{2.5}$	0.49	1.99
SHCU2-2	HCU2H1B	HCU No.2 1st Stage Charge Set B	NOx	2.32	6.66
		Heater	VOC	0.36	0.72
			SO_2	2.47	5.91
			CO	2.27	9.12
			PM	0.49	1.99
			PM_{10}	0.49	1.99
			$PM_{2.5}$	0.49	1.99
SHCU2-3	HCU2H2	HCU No.2 2 nd Charge Heater	NOx	2.94	8.46
			VOC	0.45	0.91
			SO_2	3.13	7.50
			CO	2.88	11.58
			PM	0.63	2.52
			PM_{10}	0.63	2.52
			$PM_{2.5}$	0.63	2.52
SHTU6-1	HTU6CHGH1	HTU No.6 Charge Heater	NOx	3.29	9.46
			VOC	0.51	1.02
			SO_2	3.51	8.39
			CO	3.22	12.96
			PM	0.70	2.82
			PM_{10}	0.70	2.82
			PM _{2.5}	0.70	2.82

Emission Point No.	FIN	FIN Source Name (2)	Air Contaminant	Emission	Rates
(1)	1.114		Name (3)	lbs/hour	TPY (4)
SHTU6-2	HTU6CHGH2	HTU No.6 Fractionator Reboiler	NOx	2.51	7.22
			VOC	0.39	0.78
			SO_2	2.67	6.40
			CO	2.46	9.88
			PM	0.53	2.15
			PM_{10}	0.53	2.15
			$PM_{2.5}$	0.53	2.15
SHCU2-6	HCU2DHTH1	HCU No.2 DHT Charge Heater	NOx	3.13	9.00
			VOC	0.48	0.97
			SO_2	3.34	7.98
			CO	3.07	12.33
			PM	0.67	2.68
			PM_{10}	0.67	2.68
			$PM_{2.5}$	0.67	2.68
SHCU2-5	SCHCU2-5	SCHCU2-5 HCU No.2 Fractionator Heater	NOx	15.59	62.69
			VOC	2.40	4.83
			SO_2	16.59	39.70
			СО	15.25	61.31
			PM	3.32	13.35
			PM_{10}	3.32	13.35
			$PM_{2.5}$	3.32	13.35
SDCU2-1	SDCU2-1	Coker Heater No.1	NOx	9.42	36.58
			VOC	1.45	1.41
			SO_2	10.02	23.16
			СО	9.21	35.77
			PM	2.00	7.79
			PM_{10}	2.00	7.79
			$PM_{2.5}$	2.00	7.79

Emission Point No.	FIN	FIN Source Name (2)	Air Contaminant	Emission	Rates
(1)	FIN		Name (3)	lbs/hour	TPY (4)
SDCU2-2	SDCU2-2	Coker Heater No.2	NOx	9.42	36.58
			VOC	1.45	1.41
			SO_2	10.02	23.16
			CO	9.21	35.77
			PM	2.00	7.79
			PM_{10}	2.00	7.79
			$PM_{2.5}$	2.00	7.79
SDCU2-3	SDCU2-3	DCU2-3 Coker Heater No.3	NOx	9.42	36.58
			VOC	1.45	1.41
			SO_2	10.02	23.16
			CO	9.21	35.77
			PM	2.00	7.79
			PM_{10}	2.00	7.79
			PM _{2.5}	2.00	7.79
SVPS5-1	VPS5H1/2	VPS No.5, No.1/2 Atmospheric	NOx	14.32	9.65
		Heater	VOC	2.21	4.63
			SO_2	15.24	38.02
			CO	14.00	58.72
			PM	3.05	12.78
			PM_{10}	3.05	12.78
			$PM_{2.5}$	3.05	12.78
			Ammonia	1.53	6.42

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Emission Point No.	EIN	FIN Source Name (2)	Air Contaminant	Emission	Rates
(1)	PIN		Name (3)	lbs/hour	TPY (4)
SVPS5-1	VPS5H3/4	VPS No.5, No.3/4 Atmospheric	NOx	14.32	9.65
		Heater	VOC	2.21	4.63
			SO_2	15.24	38.02
			CO	14.00	58.72
			PM	3.05	12.78
			PM_{10}	3.05	12.78
			$PM_{2.5}$	3.05	12.78
			Ammonia	1.53	6.42
SVPS5-2	VPS5VAC1HT	VPS No.5, No.1 Vacuum Heater	NOx	7.56	5.10
			VOC	1.16	2.44
			SO_2	8.05	20.09
			CO	7.39	31.02
			PM	1.61	6.75
			PM_{10}	1.61	6.75
			PM _{2.5}	1.61	6.75
			Ammonia	0.81	3.39
SVPS5-2	VPS5VAC2HT	VPS No.5, No.2 Vacuum Heater	NOx	7.56	5.10
			VOC	1.16	2.44
			SO_2	8.05	20.09
			CO	7.39	31.02
			PM	1.61	6.75
			PM_{10}	1.61	6.75
			$PM_{2.5}$	1.61	6.75
			Ammonia	0.81	3.39

Emission Point No.	FIN	FIN Source Name (2)	Air Contaminant	Emission	Rates
(1)	FIN		Name (3)	lbs/hour	TPY (4)
SNHTU2-2	NHTU2STRP	Naphtha Hydrotreater Stripper	NOx	6.51	17.92
		Reboiler	VOC	1.00	1.93
			SO_2	6.93	15.89
			СО	6.37	24.53
			PM	1.39	5.34
			PM_{10}	1.39	5.34
			$PM_{2.5}$	1.39	5.34
SNHTU2-3	NHTU2SPLT	Naphtha Hydrotreater Stripper	NOx	10.40	28.32
		Reboiler	VOC	1.60	3.05
			SO_2	11.06	25.11
			CO	10.17	38.78
			PM	2.21	8.44
			PM_{10}	2.21	8.44
			$PM_{2.5}$	2.21	8.44
STGTU1-2	STGTU1-2	TGTU1-2 Hot Oil Heater	NOx	0.53	1.21
			VOC	0.03	0.07
			SO_2	0.20	0.27
			CO	0.43	1.00
			PM	0.04	0.09
			PM_{10}	0.04	0.09
			$PM_{2.5}$	0.04	0.09
STGTU2-2	STGTU2-2	Hot Oil Heater	NOx	3.12	13.67
			VOC	0.17	0.74
			SO_2	1.16	3.03
			CO	2.57	11.25
			PM	0.23	1.02
			PM_{10}	0.23	1.02
			$PM_{2.5}$	0.23	1.02

Emission Point No.	FIN	Source Name (2)	Air Contaminant	Emission	Rates
(1)	FIN	Source Name (2)	Name (3)	lbs/hour	TPY (4)
SCRU5-3	CRU5-CCR	Regen Vent Scrubber Emissions	NOx	2.28	10.00
			SO ₂	1.59	6.96
			PM	0.13	0.59
			PM ₁₀	0.13	0.59
			PM _{2.5}	0.13	0.59
			HCl	0.07	0.30
			Chlorine	0.01	0.06
SSSCRUB	SLD/TK1928	Sulfur Loading	Hydrogen Sulfide	0.16	0.71
POSCEPMN	POSCEPMN	Maintenance Group After CEP (6)	NOx	899.31	18.37
			VOC	3149.82	75.97
			SO ₂	359.64	3.86
			CO	2755.98	52.40
			PM	66.98	1.51
			PM ₁₀	66.98	1.51
			$PM_{2.5}$	66.98	1.51
			Benzene	4.15	0.30
			H ₂ SO ₄	8.00	0.32
			Hydrogen Sulfide	29.09	0.35
			Ammonia	13.81	0.43
CGNGRP	CGNGRP	Cogen Unit Group(6)	NOx	74.21	272.81
			VOC	10.64	39.55
			SO_2	78.68	161.45
			CO	117.82	516.03
			PM	101.87	391.33
			PM ₁₀	101.87	391.33
			PM _{2.5}	101.87	391.33
			H ₂ SO ₄	32.00	58.69
			Ammonia	29.83	113.39

Emission Point No.	EIN	FIN Source Name (2)	Air Contaminant	Emission	Rates
(1)	FIN		Name (3)	lbs/hour	TPY (4)
TNKGRP	TNKGRP	Tank Group (6)	VOC	69.00	40.20
			Benzene	0.03	0.07
SRUGRP	SRUGRP	SRU Incinerators Group (6)	NOx	29.15	109.56
			VOC	1.86	7.08
			SO_2	324.90	1351.64
			СО	56.86	236.54
			PM	2.58	9.78
			PM_{10}	2.58	9.78
			$PM_{2.5}$	2.58	9.78
SPS-LOV1	GTG41-LOV	1-LOV Power Station No.4 Lube Oil Vent 1 (5)	PM	0.05	0.22
			PM ₁₀	0.05	0.22
			$PM_{2.5}$	0.05	0.22
SPS4-1	GTG41	Power Station No.4 Cogen Unit 1	NOx	15.22	62.87
			VOC	2.12	8.75
			SO_2	16.60	32.48
			СО	27.80	114.81
			PM	26.62	100.65
			PM ₁₀	26.62	100.65
			$PM_{2.5}$	26.62	100.65
			H ₂ SO ₄	9.41	18.40
			Ammonia	7.88	27.88
SPS-LOV2	GTG42-LOV	Power Station No.4 Lube Oil Vent	PM	0.05	0.22
		2 (5)	PM ₁₀	0.05	0.22
			PM _{2.5}	0.05	0.22

Emission Point No.	EIN	FIN Source Name (2)	Air Contaminant	Emission	Rates
(1)	FIN		Name (3)	lbs/hour	TPY (4)
SPS4-2	GTG42	Power Station No.4 Cogen Unit 2	NOx	15.22	62.87
			VOC	2.12	8.75
			SO_2	16.60	32.48
			CO	27.80	114.81
			PM	26.62	100.65
			PM ₁₀	26.62	100.65
			$PM_{2.5}$	26.62	100.65
			H ₂ SO ₄	9.41	18.40
			Ammonia	7.88	27.88
SPS-LOV3	GTG43-LOV	Power Station No.4 Lube Oil Vent 3 (5)	PM	0.05	0.22
			PM_{10}	0.05	0.22
			$PM_{2.5}$	0.05	0.22
SPS4-3	GTG43	Power Station No.4 Cogen Unit 3	NOx	15.22	62.87
			VOC	2.12	8.75
			SO_2	16.60	32.48
			CO	27.80	114.81
			PM	26.62	100.65
			PM_{10}	26.62	100.65
			$PM_{2.5}$	26.62	100.65
			H ₂ SO ₄	9.41	18.40
			Ammonia	7.88	27.88
SPS-LOV4	GTG44-LOV	Power Station No.4 Lube Oil Vent	PM	0.05	0.22
		4 (5)	PM_{10}	0.05	0.22
			$PM_{2.5}$	0.05	0.22

Emission Point No. (1)	FIN	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
				lbs/hour	TPY (4)
SPS4-4	GTG44	Power Station No.4 Cogen Unit 4	NOx	15.22	62.87
			VOC	2.12	8.75
			SO_2	16.60	32.48
			CO	27.80	114.81
			PM	26.62	100.65
			PM ₁₀	26.62	100.65
			$PM_{2.5}$	26.62	100.65
			H ₂ SO ₄	9.41	18.40
			Ammonia	7.88	27.88
SPS4-6	Boiler 46	Power Boiler 46	NOx	20.86	39.16
			VOC	3.21	7.04
			SO_2	22.20	57.86
			CO	20.40	89.36
			PM	4.44	19.45
			PM_{10}	4.44	19.45
			PM _{2.5}	4.44	19.45
			Ammonia	2.23	9.77
TK2073	TK2073	Storage TK2073	VOC	8.41	0.11
			Benzene	0.01	0.01
TK2074	TK2074	Storage TK2074	VOC	8.41	0.11
			Benzene	0.01	0.01
TK2093	TK2093	Storage TK2093	VOC	11.89	9.03
TK2094	TK2094	Storage TK2094	VOC	6.55	6.32
TK2085	TK2085	Storage TK2085	VOC	8.68	0.06
			Benzene	0.01	0.01

Emission Point No. (1)	FIN	Source Name (2)	Air Contaminant	Emission Rates	
			Name (3)	lbs/hour	TPY (4)
TK2097	TK2097	Storage TK2097	VOC	1.64	6.26
			Benzene	0.01	0.03
TK2096	TK2096	Storage TK2096	VOC	1.64	6.26
			Benzene	0.01	0.03
TK2069	TK2069	Storage TK2069	VOC	4.60	11.39
			Benzene	0.01	0.02
TK2067	TK2067	Storage TK 2067	VOC	4.60	11.39
			Benzene	0.01	0.02
TK2068	TK2068	Storage TK 2068	VOC	4.60	11.39
			Benzene	0.01	0.02
TK2110	TK2110	DCU Quench Water Tank	VOC	0.01	0.10
			Benzene	<0.01	<0.01
TK2111	TK2111	Refinery Waste Tank	VOC	0.70	0.19
TK2113	TK2113	Storage TK 2113	VOC	0.07	0.05
TK2115	TK2115	Storage TK 2115	VOC	0.07	0.05
TK2145	TK2145	Storage TK2145	VOC	1.14	4.17
			Benzene	0.01	0.01
TK1930	TK1930	Amine Surge Tank 1930	VOC	0.07	0.01
TK1937	TK1937	Resid Tank	VOC	14.13	0.97
004TK001	004TK001	Storage Tank 004TK	VOC	0.03	0.01
STGTU5-1	STGTU5-1	SRU5/TGTU5 Incinerator	NOx	5.22	22.85
			VOC	0.35	1.54
			SO_2	71.11	311.47
			CO	12.44	54.51
			PM	0.49	2.13
			PM_{10}	0.49	2.13
			PM _{2.5}	0.49	2.13

Emission Point No.	FIN	Source Name (2)	Air Contaminant	Emission Rates	
(1)	PIN	Source Name (2)	Name (3)	lbs/hour	TPY (4)
STGTU6-1	STGTU6-1	SRU6/TGTU6 Incinerator	NOx	5.22	22.85
			VOC	0.35	1.54
			SO_2	71.11	311.47
			CO	12.44	54.51
			PM	0.49	2.13
			PM_{10}	0.49	2.13
			PM _{2.5}	0.49	2.13
STGTU7-1	STGTU7-1	SRU7/TGTU7 Incinerator	NOx	5.22	22.85
			VOC	0.35	1.54
			SO ₂	71.11	311.47
			CO	12.44	54.51
			PM	0.49	2.13
			PM_{10}	0.49	2.13
			$PM_{2.5}$	0.49	2.13
FPS3	PS No 3 FE	Power Station No.3 Fugitive Emissions	VOC	2.20	9.50
STGTU1-1	TGTUINCINR	SRU1/TGTU1 Incinerator	NOx	6.00	18.22
			VOC	0.40	1.23
			SO ₂	62.22	236.83
			CO	10.89	41.45
			PM	0.56	1.70
			PM_{10}	0.56	1.70
			$PM_{2.5}$	0.56	1.70

STGTU2-1	STGTU2-1	SRU2/TGTU1 Incinerator	NOx	7.50	22.78
			VOC	0.40	1.23
			SO2	62.22	236.83
			CO	10.89	41.45
			PM	0.56	1.70
			PM_{10}	0.56	1.70
			$PM_{2.5}$	0.56	1.70

- (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
 - NOx total oxides of nitrogen
 - SO₂ sulfur dioxide
 - PM total particulate matter, suspended in the atmosphere, including PM10 and PM2.5, as represented
 - PM10 total particulate matter equal to or less than 10 microns in diameter, including PM2.5, as represented
 - PM2.5 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
- (6) Refer to Attachment 10 Emission Groups for the specific EPNs, Facility Identification Numbers and source names included in each group.

Date: July	15, 2016
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