#### Emission Sources - Maximum Allowable Emission Rates

### Permit Number 48106 and PSDTX1012M1

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	
			lbs/hour (16)	TPY (4)
SH1 (6)	GE LM 6000 (~ 50 MW) Simple Cycle (≤ 2,750 hrs/yr)	NO <sub>x</sub>	8.6	11.9
		NO <sub>x</sub> (MSS)	203.7	-
		со	44.2	60.8
		CO (MSS)	923.0	-
		voc	4.1	5.6
		VOC (MSS)	17.6	-
		PM/PM <sub>10</sub>	4.0	5.5
		SO <sub>2</sub>	0.3	0.5
		NH <sub>3</sub>	4.5	6.1
SH1	GE LM 6000 (~ 50 MW) Simple Cycle (with CO catalyst)	NO <sub>x</sub>	8.6	37.8
		NO <sub>x</sub> (MSS)	203.7	-
		со	9.5	41.4
		CO (MSS)	923.0	-
		voc	1.2	5.3
		VOC (MSS)	17.6	-
		PM/PM <sub>10</sub>	4.0	17.5
		SO <sub>2</sub>	0.3	1.5
		NH <sub>3</sub>	4.5	19.6
SH2 (6)	GE LM 6000 (~ 50 MW) Simple Cycle (≤ 2,750 hrs/yr)	NO <sub>x</sub>	8.6	11.9
		NO <sub>x</sub> (MSS)	203.7	-

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		со	44.2	60.8
SH2 (6)	GE LM 6000 (~ 50 MW) Simple Cycle	CO (MSS)	923.0	-
	(≤ 2,750 hrs/yr)	VOC	4.1	5.6
		VOC (MSS)	17.6	-
		PM/PM <sub>10</sub>	4.0	5.5
		SO <sub>2</sub>	0.3	0.5
		NH <sub>3</sub>	4.5	6.1
SH2	GE LM 6000 (~ 50 MW) Simple Cycle	NO <sub>x</sub>	8.6	37.8
	(with CO catalyst)	NO <sub>x</sub> (MSS)	203.7	-
		СО	9.5	41.4
		CO (MSS)	923.0	-
		voc	1.2	5.3
		VOC (MSS)	17.6	-
		PM/PM <sub>10</sub>	4.0	17.5
		SO <sub>2</sub>	0.3	1.5
		NH <sub>3</sub>	4.5	19.6
SH3 (6)	GE LM 6000 (~ 50 MW) Simple Cycle	NO <sub>x</sub>	8.6	11.9
	(≤ 2,750 hrs/yr)	NO <sub>x</sub> (MSS)	203.7	-
		СО	44.2	60.8
		CO (MSS)	923.0	-
		VOC	4.1	5.6
		VOC (MSS)	17.6	-
		PM/PM <sub>10</sub>	4.0	5.5
		SO <sub>2</sub>	0.3	0.5
SH3 (6) Project Number: 10	GE LM 6000 (~ 50 MW) Simple Cycle	NH₃	4.5	6.1

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# Emission Sources - Maximum Allowable Emission Rates

	(≤ 2,750 hrs/yr)			
SH3	GE LM 6000 (~ 50 MW)	NO <sub>x</sub>	8.6	37.8
	Simple Cycle (with CO catalyst)	NO <sub>x</sub> (MSS)	203.7	-
		СО	9.5	41.4
		CO (MSS)	923.0	-
		VOC	1.2	5.3
		VOC (MSS)	17.6	-
		PM/PM <sub>10</sub>	4.0	17.5
		SO <sub>2</sub>	0.3	1.5
		NH <sub>3</sub>	4.5	19.6
SH4 (6)	GE LM 6000 (~ 50 MW) Simple Cycle (≤ 2,750 hrs/yr)	NO <sub>x</sub>	8.6	11.9
		NO <sub>x</sub> (MSS)	203.7	-
		СО	44.2	60.8
		CO (MSS)	923.0	-
		VOC	4.1	5.6
		VOC (MSS)	17.6	-
		PM/PM <sub>10</sub>	4.0	5.5
		SO <sub>2</sub>	0.3	0.5
		NH <sub>3</sub>	4.5	6.1
SH4	GE LM 6000 (~ 50 MW) Simple Cycle (with CO catalyst)	NO <sub>x</sub>	8.6	37.8
		NO <sub>x</sub> (MSS)	203.7	-
		СО	9.5	41.4
SH4	GE LM 6000 (~ 50 MW) Simple Cycle (with CO catalyst)	CO (MSS)	923.0	-
		VOC	1.2	5.3
		VOC (MSS)	17.6	-
		PM/PM <sub>10</sub>	4.0	17.5
Project Number: 16229	9	ı	· ·	1

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# Emission Sources - Maximum Allowable Emission Rates

		60	0.2	1.5
		SO <sub>2</sub>	0.3	1.5
		NH <sub>3</sub>	4.5	19.6
SH5 (7)	GE 7FA (~ 164 MW) HRSG (~ 681 MMBtu-hr)	NO <sub>x</sub>	46.7	191.4
	Combined Cycle	NO <sub>x</sub> (MSS)	247.0	-
		СО	98.4	403.3
		CO (MSS)	2200.0	-
		VOC	16.4	67.4
		VOC (MSS)	150.0	-
		PM/PM <sub>10</sub>	32.8	134.5
		SO <sub>2</sub>	1.6	7.3
		NH <sub>3</sub>	24.2	99.0
SH6 (6)	GE LM 6000 (~ 50 MW) Simple Cycle (≤ 2,750 hrs/yr)	NO <sub>x</sub>	8.6	11.9
		NO <sub>x</sub> (MSS)	203.7	-
		СО	44.2	60.8
		CO (MSS)	923.0	-
		voc	4.1	5.6
		VOC (MSS)	17.6	-
		PM/PM <sub>10</sub>	4.0	5.5
		SO <sub>2</sub>	0.3	0.5
SH6 (6)	GE LM 6000 (~ 50 MW) Simple Cycle (≤ 2,750 hrs/yr)	NH <sub>3</sub>	4.5	6.1
SH6	GE LM 6000 (~ 50 MW) Simple Cycle (with CO catalyst)	NO <sub>x</sub>	8.6	37.8
		NO <sub>x</sub> (MSS)	203.7	-
		СО	9.5	41.4
		CO (MSS)	923.0	-

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## Emission Sources - Maximum Allowable Emission Rates

		VOC	1.2	5.3
		VOC (MSS)	17.6	-
		PM/PM <sub>10</sub>	4.0	17.5
		SO <sub>2</sub>	0.3	1.5
		NH <sub>3</sub>	4.5	19.6
SH7 (6)	GE LM 6000 (~ 50 MW)	NO <sub>x</sub>	8.6	11.9
	Simple Cycle (≤ 2,750 hrs/yr)	NO <sub>x</sub> (MSS)	203.7	-
		СО	44.2	60.8
		CO (MSS)	923.0	-
		voc	4.1	5.6
		VOC (MSS)	17.6	-
		PM/PM <sub>10</sub>	4.0	5.5
		SO <sub>2</sub>	0.3	0.5
		NH <sub>3</sub>	4.5	6.1
SH7	GE LM 6000 (~ 50 MW) Simple Cycle	NO <sub>x</sub>	8.6	37.8
	(with CO catalyst)	NO <sub>x</sub> (MSS)	203.7	-
		СО	9.5	41.4
SH7	GE LM 6000 (~ 50 MW) Simple Cycle	CO (MSS)	923.0	-
	(with CO catalyst)	voc	1.2	5.3
		VOC (MSS)	17.6	-
		PM/PM <sub>10</sub>	4.0	17.5
		SO <sub>2</sub>	0.3	1.5
		NH <sub>3</sub>	4.5	19.6
HTR-01 (8)	Inlet Air Heaters	NO <sub>x</sub>	0.49	0.25
		СО	0.41	0.21

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## Emission Sources - Maximum Allowable Emission Rates

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		VOC	0.03	0.01
		PM/PM <sub>10</sub>	0.04	0.02
		SO <sub>2</sub>	<0.01	<0.01
HTR-02 (8)	Inlet Air Heaters	NO <sub>x</sub>	0.49	0.25
		со	0.41	0.21
		VOC	0.03	0.01
		PM/PM <sub>10</sub>	0.04	0.02
		SO <sub>2</sub>	<0.01	<0.01
HTR-03 (8)	Inlet Air Heaters	NO <sub>x</sub>	0.49	0.25
		со	0.41	0.21
		voc	0.03	0.01
		PM/PM <sub>10</sub>	0.04	0.02
		SO <sub>2</sub>	<0.01	<0.01
SC CTWR-1 (9)	Simple Cycle Cooling Tower 1	voc	2.20	0.05
		PM/PM <sub>10</sub>	0.21	0.42
SC CTWR-1 (9)	Simple Cycle Cooling Tower 1	H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		HOCI	0.02	<0.01
SC CTWR-2 (9)	Simple Cycle Cooling Tower 2	voc	2.20	0.05
		PM/PM <sub>10</sub>	0.21	0.42
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		HOCI	0.02	<0.01
SC CTWR-3 (9)	Simple Cycle Cooling Tower 3	voc	2.20	0.05
		PM/PM <sub>10</sub>	0.21	0.42
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		HOCI	0.02	<0.01

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## Emission Sources - Maximum Allowable Emission Rates

SC CTWR-4 (9)	Simple Cycle Cooling Tower 4	voc	1.85	0.04
		PM/PM <sub>10</sub>	0.03	0.06
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		HOCI	<0.01	<0.01
CLTWR-1 (7)	Cooling Tower 1	VOC	0.80	1.54
	(combined cycle)	PM/PM <sub>10</sub>	2.74	12.0
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		HOCI	0.53	0.11
SC PB FUG (5)	Simple Cycle Power Block Fugitives	voc	0.01	0.06
	Block Fugilives	H <sub>2</sub> S	<0.01	<0.01
SC MS FUG (5)	Simple Cycle Natural Gas Meter Skid	voc	0.05	0.21
		H <sub>2</sub> S	<0.01	<0.01
CC PB FUG (5)	Combined Cycle Power Block Fugitives	voc	0.02	0.07
CC PB FUG (5)	Combined Cycle Power Block Fugitives	H <sub>2</sub> S	<0.01	<0.01
CC MS FUG (5)	Combined Cycle Natural Gas Meter Skid	voc	0.05	0.22
		H <sub>2</sub> S	<0.01	<0.01
SC AMFUG (5)	Simple Cycle Ammonia Fugitives	NH <sub>3</sub>	0.25	1.1
CC AMFUG (5)	Combined Cycle Ammonia Fugitives	NH <sub>3</sub>	0.11	0.46
TANK 5-4	Oil/Water Separator	VOC	0.05	0.01
EDG (10)	Emergency Diesel Generator Twin Pack	NO <sub>x</sub>	7.3	3.2
		СО	1.4	0.6
		VOC	0.37	0.14
		PM/PM <sub>10</sub>	0.2	0.1
		SO <sub>2</sub>	<0.01	<0.01

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### Emission Sources - Maximum Allowable Emission Rates

SC-VNTS (11)	Simple Cycle Oil Vents	PM <sub>10</sub>	0.25	1.08
		voc	0.28	1.24
CC-VNTS (12)	Combined Cycle Oil Vents	PM <sub>10</sub>	0.07	0.13
		voc	0.08	0.18
WTTNKS (13)	Water Treatment Chemical Storage	voc	4.48	1.28
	Tanks	H <sub>2</sub> SO <sub>4</sub>	0.02	<0.01
OILRES (14)	Circulating Water Pump/Gas Compressor Lube Oil Reservoir	VOC	<0.01	<0.01
WASHTNKS (15)	Underground Wash Water Tanks	voc	0.46	0.05
MSSFUG (5)	Non-ILE Maintenance Activities Attachment B	voc	90.22	3.97
		PM <sub>10</sub>	1.12	0.18
		PM <sub>2.5</sub>	1.12	0.18
MSSFUG (5)	Non-ILE Maintenance Activities Attachment B	H <sub>2</sub> S	0.03	<0.01
		Exempt Solvent	0.01	0.04
ILEMSS (5)	ILE Maintenance Activities Attachment A	NO <sub>x</sub>	0.32	0.70
		со	0.18	0.40
		voc	0.13	0.14
		PM <sub>10</sub>	0.03	0.05
		PM <sub>2.5</sub>	0.03	0.05
		NH <sub>3</sub>	0.01	<0.01

<sup>(1)</sup> Emission point identification - either specific equipment designation or emission point number from plot plan.

(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

 $PM_{10}$  - total particulate matter equal to or less than 10 microns in diameter, including  $PM_{2.5}$ , as represented

<sup>(2)</sup> Specific point source name. For fugitive sources, use area name or fugitive source name.

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#### Emission Sources - Maximum Allowable Emission Rates

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

CO - carbon monoxide
HOCl - hypochlorous acid
H<sub>2</sub>S - hydrogen sulfide
H<sub>2</sub>SO<sub>4</sub> - sulfuric acid

- (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) Hours of operations are limited to 2,750 hours until the requirements of Special Condition No. 12 have been meet.
- (7) Emissions are based upon 8,200 operating hours per year.
- (8) Emissions are based upon 1,000 operating hours per year.
- (9) Emissions are based upon 4,000 operating hours per year.
- (10) Emissions are based upon 876 operation hours per year.
- (11) This grouping includes the following vents: SH-VNT-1-4 (A-D), SH6-7 (A-D).
- (12) This grouping includes the following vents: SH-VNT-5 (A-C).
- (13) This grouping includes the following tanks: SH-TNK (20-26, 49-50) and SH-CLARIFY.
- (14) This grouping includes the following tanks: SH-TNK (41-44).
- (15) This grouping includes the following tanks: SH-TNK (8-13), SH-TNK (45-48).
- (16) For each pollutant whose emissions are measured during planned MSS activities using a CEMS, only the MSS lb/hr limits apply during each clock hour that includes one or more minutes of MSS activities. During all other clock hours, the normal lb/hr limits apply.