

## Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 117026, PSDTX1390, and N194

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	TPY (4)
Option 1				
EM-CT1S	Unit 1 (5) Siemens SGT6-5000 F(5)ee	NO <sub>x</sub>	21.12	103.13
		NO <sub>x</sub> (MSS)	148.80	-
		CO	12.86	199.40
		CO (MSS)	3612.00	-
		VOC	7.36	45.20
		VOC (MSS)	418.80	-
		PM	35.47	81.88
		PM <sub>10</sub>	35.47	81.88
		PM <sub>2.5</sub>	35.47	81.88
		SO <sub>2</sub>	40.66	35.62
		H <sub>2</sub> SO <sub>4</sub>	15.56	13.63
		NH <sub>3</sub>	27.37	122.75
		NH <sub>3</sub> (MSS)	50.00	-
EM-CT2S	Unit 2 (5) Siemens SGT6-5000 F(5)ee	NO <sub>x</sub>	21.12	103.13
		NO <sub>x</sub> (MSS)	148.80	-
		CO	12.86	199.40
		CO (MSS)	3612.00	-
		VOC	7.36	45.20
		VOC (MSS)	418.80	-
		PM	35.47	81.88
		PM <sub>10</sub>	35.47	81.88

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		PM <sub>2.5</sub>	35.47	81.88
		SO <sub>2</sub>	40.66	35.62
		H <sub>2</sub> SO <sub>4</sub>	15.56	13.63
		NH <sub>3</sub>	27.37	122.75
		NH <sub>3</sub> (MSS)	50.00	-
Option 2				
EM-CT1S	Unit 1 (5) GE 7FA.05	NO <sub>x</sub>	20.35	89.44
		NO <sub>x</sub> (MSS)	232.80	-
		CO	12.39	107.93
		CO (MSS)	3032.40	-
		VOC	7.09	36.73
		VOC (MSS)	267.60	-
		PM	30.66	62.88
		PM <sub>10</sub>	30.66	62.88
		PM <sub>2.5</sub>	30.66	62.88
		SO <sub>2</sub>	37.88	30.50
		H <sub>2</sub> SO <sub>4</sub>	14.50	11.67
		NH <sub>3</sub>	26.36	110.89
		NH <sub>3</sub> (MSS)	50.00	-
EM-CT2S	Unit 2 (5) GE 7FA.05	NO <sub>x</sub>	20.35	89.44
		NO <sub>x</sub> (MSS)	232.80	-
		CO	12.39	107.93
		CO (MSS)	3032.40	-
		VOC	7.09	36.73
		VOC (MSS)	267.60	-
		PM	30.66	62.88
		PM <sub>10</sub>	30.66	62.88
		PM <sub>2.5</sub>	30.66	62.88
		SO <sub>2</sub>	37.88	30.50

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		H <sub>2</sub> SO <sub>4</sub>	14.50	11.67
		NH <sub>3</sub>	26.36	110.89
		NH <sub>3</sub> (MSS)	50.00	-
<b>Ancillary Emissions</b>				
EM-ABS	Auxiliary Boiler (5)	NO <sub>x</sub>	0.73	3.21
		CO	2.71	11.86
		VOC	0.40	1.75
		PM	0.55	2.41
		PM <sub>10</sub>	0.55	2.41
		PM <sub>2.5</sub>	0.55	2.41
		SO <sub>2</sub>	1.04	0.91
EM-EDGV	Emergency Diesel Generator (5)	NO <sub>x</sub>	16.54	0.83
		CO	9.56	0.48
		VOC	0.89	0.04
		PM	0.54	0.03
		PM <sub>10</sub>	0.54	0.03
		PM <sub>2.5</sub>	0.54	0.03
		SO <sub>2</sub>	0.02	<0.01
EM-DFPV	Diesel Firewater Pump (5)	NO <sub>x</sub>	1.74	0.09
		CO	1.88	0.09
		VOC	0.12	<0.01
		PM	0.09	<0.01
		PM <sub>10</sub>	0.09	<0.01
		PM <sub>2.5</sub>	0.09	<0.01
		SO <sub>2</sub>	<0.01	<0.01
EM-EDGTV	Emergency Generator Diesel Storage Tank	VOC	0.02	<0.01
EM-DFPTV	Firewater Pump Diesel Storage Tank	VOC	0.02	<0.01
EM-CT1LOV	Unit 1 Lube Oil Vent	VOC	<0.01	0.01

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		PM	<0.01	0.01
		PM <sub>10</sub>	<0.01	0.01
		PM <sub>2.5</sub>	<0.01	0.01
EM-CT2LOV	Unit 2 Lube Oil Vent	VOC	<0.01	0.01
		PM	<0.01	0.01
		PM <sub>10</sub>	<0.01	0.01
		PM <sub>2.5</sub>	<0.01	0.01
EM-ST1LOV	Steam Turbine 1 Lube Oil Vent	VOC	<0.01	0.01
		PM	<0.01	0.01
		PM <sub>10</sub>	<0.01	0.01
		PM <sub>2.5</sub>	<0.01	0.01
EM-1&2LOF	Lube Oil Component Fugitives (6)	VOC	0.50	2.18
EM-1&2NH <sub>3</sub> F	Ammonia Component Fugitives (6)	NH <sub>3</sub>	0.12	0.51
EM-1&2NGF	Natural Gas Component Fugitives (6)	VOC	0.01	0.04
EM-MSSFUG	Planned Maintenance Activities Fugitives (6)	NO <sub>x</sub>	<0.01	<0.01
		CO	<0.01	<0.01
		VOC	0.12	<0.01
		PM	0.05	<0.01
		PM <sub>10</sub>	0.05	<0.01
		PM <sub>2.5</sub>	0.05	<0.01
		NH <sub>3</sub>	<0.01	<0.01

- (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)
  - NO<sub>x</sub> - total oxides of nitrogen
  - CO - carbon monoxide
  - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>
  - PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>
  - PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
  - SO<sub>2</sub> - sulfur dioxide
  - H<sub>2</sub>SO<sub>4</sub> - sulfuric acid
  - NH<sub>3</sub> - ammonia
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

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- (5) Planned maintenance, startup and shutdown (MSS) for all pollutants are authorized even if not specifically identified as MSS. During any clock hour that includes one or more minutes of planned MSS that pollutant's maximum hourly emission rate shall apply during that clock hour.
- (6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: June 18, 2015