

## Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 17380 and PSDTX717M2

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)
GT-1A	Pratt and Whitney FT4C-1 25 MW Gas Turbine (6)	NO <sub>x</sub>	64.0	78.0
		NO <sub>x</sub> (MSS)	160.0	
		CO	235.0	286.0
		VOC	34.0	41.0
		VOC (MSS)	51.0	
		PM	15.0	18.0
		PM <sub>10</sub>	15.0	18.0
		SO <sub>2</sub>	20.0	24.0
GT-1B	Pratt and Whitney FT4C-1 25 MW Gas Turbine (6)	NO <sub>x</sub>	64.0	78.0
		NO <sub>x</sub> (MSS)	160.0	
		CO	235.0	286.0
		VOC	34.0	41.0
		VOC (MSS)	51.0	
		PM	15.0	18.0
		PM <sub>10</sub>	15.0	18.0
		SO <sub>2</sub>	20.0	24.0
GT-2A	Pratt and Whitney FT4C-1 25 MW Gas Turbine (6)	NO <sub>x</sub>	64.0	78.0
		NO <sub>x</sub> (MSS)	160.0	
		CO	235.0	286.0
		VOC	34.0	41.0

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		VOC (MSS)	51.0	
		PM	15.0	18.0
		PM <sub>10</sub>	15.0	18.0
		SO <sub>2</sub>	20.0	24.0
GT-2B	Pratt and Whitney FT4C-1 25 MW Gas Turbine (6)	NO <sub>x</sub>	64.0	78.0
		NO <sub>x</sub> (MSS)	160.0	
		CO	235.0	286.0
		VOC	34.0	41.0
		VOC (MSS)	51.0	
		PM	15.0	18.0
		PM <sub>10</sub>	15.0	18.0
		SO <sub>2</sub>	20.0	24.0
GT-3A	Pratt and Whitney FT4C-1 25 MW Gas Turbine (6)	NO <sub>x</sub>	64.0	78.0
		NO <sub>x</sub> (MSS)	160.0	
		CO	235.0	286.0
		VOC	34.0	41.0
		VOC (MSS)	51.0	
		PM	15.0	18.0
		PM <sub>10</sub>	15.0	18.0
		SO <sub>2</sub>	20.0	24.0
GT-3B	Pratt and Whitney FT4C-1 25 MW Gas Turbine (6)	NO <sub>x</sub>	64.0	78.0
		NO <sub>x</sub> (MSS)	160.0	
		CO	235.0	286.0
		VOC	34.0	41.0
		VOC (MSS)	51.0	

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		PM	15.0	18.0
		PM <sub>10</sub>	15.0	18.0
		SO <sub>2</sub>	20.0	24.0
GT-4A	Pratt and Whitney FT4C-1 25 MW Gas Turbine (6)	NO <sub>x</sub>	64.0	78.0
		NO <sub>x</sub> (MSS)	160.0	
		CO	235.0	286.0
		VOC	34.0	
		VOC (MSS)	51.0	18.0
		PM	15.0	
		PM <sub>10</sub>	15.0	18.0
		SO <sub>2</sub>	20.0	24.0
GT-4B	Pratt and Whitney FT4C-1 25 MW Gas Turbine (6)	NO <sub>x</sub>	64.0	78.0
		NO <sub>x</sub> (MSS)	160.0	
		CO	235.0	286.0
		VOC	34.0	
		VOC (MSS)	51.0	18.0
		PM	15.0	
		PM <sub>10</sub>	15.0	18.0
		SO <sub>2</sub>	20.0	24.0
GT-VENTS	Gas Turbines (7) Lube Oil Reservoirs	VOC	0.48	2.1
		PM	0.48	2.1
DC-FUELFUG	Fuel System Component Fugitives (5) (natural gas service)	VOC	0.74	3.26
		H <sub>2</sub> S	<0.01	<0.01
WTTNKS	Water Treatment Chemical Storage Tanks (5) (Attachment C)	VOC	0.82	0.01
		HCl	0.44	<0.01

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		NH <sub>3</sub>	0.01	0.01
WOTNK	Use Oil Tank/Truck Loading	VOC	0.16	<0.01
OVS-TNKS	Oil-Water Separator Tanks (5) (Attachment C)	VOC	<0.01	<0.01
HEATERS	Salamander Portable Heaters 1.0 MMBtu/hr (combined capacity)	NO <sub>x</sub>	0.02	0.08
		CO	<0.01	0.02
		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
		SO <sub>2</sub>	0.01	0.03
ILEMSS	ILE Maintenance Emissions (5) (Attachment A)	NO <sub>x</sub>	<0.01	<0.01
		VOC	1.23	0.10
		H <sub>2</sub> S	<0.01	<0.01
MSSFUG	non-ILE Maintenance Emissions (5) (Attachment B)	VOC	1.67	2.18
		Exempt Solvent	1.67	0.02

- (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
- HCl
  - hydrochloric acid
- H<sub>2</sub>S
  - hydrogen sulfide
- MSS
  - maintenance, startup, and shutdown emissions
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.

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- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Emission of all pollutants are authorized during MSS activities even if emission limits are not specifically identified as applying to MSS activities. During any clock hour that includes one or more minutes of planned MSS each pollutant's maximum hourly emission rate shall apply during to the entire clock hour.
- (7) This grouping includes the following vents: GT1AFTLORV, GT1AGELORV, GT1BFTLORV, GT1BGELORV, GT2AFTLORV, GT2AGELORV, GT2BFTLORV, GT2BGELORV, GT3AFTLORV, GT3AGELORV, GT3BFTLORV, GT3BGELORV, GT4AFTLORV, GT4AGELORV, GT4BFTLORV, and GT4BGELORV.

Date: July 5, 2017