

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 2094

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)
THWGT-51	GE MS7001C 85MW Gas Turbine Generator Natural Gas Firing	NO <sub>x</sub>	217.4	952.0
		CO	125.0	547.4
		SO <sub>2</sub>	17.4	76.2
		PM/PM <sub>10</sub>	15.2	66.6
		VOC	45.6	200.0
		NO <sub>x</sub> (7)	760.9	---
THWGT-51	GE MS7001C 85MW Gas Turbine Generator Fuel Oil Firing	NO <sub>x</sub>	284.9	102.6
		CO	104.5	37.6
		SO <sub>2</sub>	284.9	102.6
		PM/PM <sub>10</sub>	38.0	13.7
		VOC	38.0	13.7
		NO <sub>x</sub> (7)	1304.4	---
THWGT-52	GE MS7001C 85MW Gas Turbine Generator Natural Gas Firing	NO <sub>x</sub>	217.4	952.0
		CO	125.0	547.4
		SO <sub>2</sub>	17.4	76.2
		PM/PM <sub>10</sub>	15.2	66.6
		VOC	45.6	200.0
		NO <sub>x</sub> (7)	760.9	---
THWGT-52	GE MS7001C 85MW Gas Turbine Generator Fuel Oil Firing	NO <sub>x</sub>	284.9	102.6
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		SO <sub>2</sub>	284.9	102.6
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		NO <sub>x</sub> (7)	1304.4	---
THWGT-53	GE MS7001C 85MW Gas Turbine Generator Natural Gas Firing	NO <sub>x</sub>	217.4	952.0
		CO	125.0	547.4
		SO <sub>2</sub>	17.4	76.2
		PM/PM <sub>10</sub>	15.2	66.6
		VOC	45.6	200.0
		NO <sub>x</sub> (7)	760.9	---
THWGT-53	GE MS7001C 85MW Gas Turbine Generator Fuel Oil Firing	NO <sub>x</sub>	284.9	102.6
		CO	104.5	37.6
		SO <sub>2</sub>	284.9	102.6
		PM/PM <sub>10</sub>	38.0	13.7
		VOC	38.0	13.7
		NO <sub>x</sub> (7)	1304.4	---
THWGT-54	GE MS7001C 85MW Gas Turbine Generator Natural Gas Firing	NO <sub>x</sub>	217.4	952.0
		CO	125.0	547.4
		SO <sub>2</sub>	17.4	76.2
		PM/PM <sub>10</sub>	15.2	66.6
		VOC	45.6	200.0
		NO <sub>x</sub> (7)	760.9	---
THWGT-54	GE MS7001C 85MW Gas Turbine Generator Fuel Oil Firing	NO <sub>x</sub>	284.9	102.6
		CO	104.5	37.6
		SO <sub>2</sub>	284.9	102.6

## Emission Sources - Maximum Allowable Emission Rates

		PM/PM <sub>10</sub>	38.0	13.7
		VOC	38.0	13.7
		NO <sub>x</sub> (7)	1304.4	---
THWGT-55	GE MS7001C 85MW Gas Turbine Generator Natural Gas Firing	NO <sub>x</sub>	217.4	952.0
		CO	125.0	547.4
		SO <sub>2</sub>	17.4	76.2
		PM/PM <sub>10</sub>	15.2	66.6
		VOC	45.6	200.0
		NO <sub>x</sub> (7)	760.9	---
THWGT-55	GE MS7001C 85MW Gas Turbine Generator Fuel Oil Firing	NO <sub>x</sub>	284.9	102.6
		CO	104.5	37.6
		SO <sub>2</sub>	284.9	102.6
		PM/PM <sub>10</sub>	38.0	13.7
		VOC	38.0	13.7
		NO <sub>x</sub> (7)	1304.4	---
THWGT-56	GE MS7001C 85MW Gas Turbine Generator Natural Gas Firing	NO <sub>x</sub>	217.4	952.0
		CO	125.0	547.4
		SO <sub>2</sub>	17.4	76.2
		PM/PM <sub>10</sub>	15.2	66.6
		VOC	45.6	200.0
		NO <sub>x</sub> (7)	760.9	---
THWGT-56	GE MS7001C 85MW Gas Turbine Generator Fuel Oil Firing	NO <sub>x</sub>	284.9	102.6
		CO	104.5	37.6
		SO <sub>2</sub>	284.9	102.6
		PM/PM <sub>10</sub>	38.0	13.7
		VOC	38.0	13.7

## Emission Sources - Maximum Allowable Emission Rates

		NO <sub>x</sub> (7)	1304.4	---
MSSFUG	Miscellaneous Maintenance Activities	PM	1.06	0.51
		PM <sub>10</sub>	1.06	0.51
		PM <sub>2.5</sub>	1.06	0.51
		VOC	280.69	2.38

- (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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
  - 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) Unless otherwise noted, the tpy emission limit specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities.
- (6) Unless otherwise noted, the lb/hr emission limit specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities.
- (7) This short term emission rate applies during periods of turbine MSS operations.
- (8) Emission rates when firing natural gas are based on and the facilities are limited to 8,760 hours per year per turbine. Emission rates when firing No. 2 fuel oil are based on and the facilities are limited to 720 hours per year per turbine.

Date: June 11, 2012