

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 21592

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-31 (6)(8)(9)(10)	70 MW GE MS7001C Natural Gas Fired Combined Cycle Gas Turbine Generator	NO <sub>x</sub> (7)	75.5	297.4
		CO	51.1	201.1
		SO <sub>2</sub>	12.8	50.4
		VOC	1.8	7.2
		PM	6.0	26.3
		PM <sub>10</sub>	6.0	26.3
THWGT-32 (6)(8)(9)(10)	70 MW GE MS7001C Natural Gas Fired Combined Cycle Gas Turbine Generator	NO <sub>x</sub> (7)	75.5	297.4
		CO	51.1	201.1
		SO <sub>2</sub>	12.8	50.4
		VOC	1.8	7.2
		PM	6.0	26.3
		PM <sub>10</sub>	6.0	26.3
THWGT-33 (6)(8)(9)(10)	70 MW GE MS7001C Natural Gas Fired Combined Cycle Gas Turbine Generator	NO <sub>x</sub> (7)	75.5	297.4
		CO	51.1	201.1
		SO <sub>2</sub>	12.8	50.4
		VOC	1.8	7.2
		PM	6.0	26.3
		PM <sub>10</sub>	6.0	26.3
THWGT-34 (6)(8)(9)(10)	70 MW GE MS7001C Natural Gas Fired Combined Cycle Gas Turbine Generator	NO <sub>x</sub> (7)	75.5	297.4
		CO	51.1	201.1

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		SO <sub>2</sub>	12.8	50.4
		VOC	1.8	7.2
		PM	6.0	26.3
		PM <sub>10</sub>	6.0	26.3
THWGT-41 (6)(8)(9)(10)	70 MW GE MS7001C Natural Gas Fired Combined Cycle Gas Turbine Generator	NO <sub>x</sub> (7)	75.5	297.4
		CO	51.1	201.1
		SO <sub>2</sub>	12.8	50.4
		VOC	1.8	7.2
		PM	6.0	26.3
		PM <sub>10</sub>	6.0	26.3
THWGT-42 (6)(8)(9)(10)	70 MW GE MS7001C Natural Gas Fired Combined Cycle Gas Turbine Generator	NO <sub>x</sub> (7)	75.5	297.4
		CO	51.1	201.1
		SO <sub>2</sub>	12.8	50.4
		VOC	1.8	7.2
		PM	6.0	26.3
		PM <sub>10</sub>	6.0	26.3
THWGT-43 (6)(8)(9)(10)	70 MW GE MS7001C Natural Gas Fired Combined Cycle Gas Turbine Generator	NO <sub>x</sub> (7)	75.5	297.4
		CO	51.1	201.1
		SO <sub>2</sub>	12.8	50.4
		VOC	1.8	7.2
		PM	6.0	26.3
		PM <sub>10</sub>	6.0	26.3
THWGT-44 (6)(8)(9)(10)	70 MW GE MS7001C Natural Gas Fired Combined Cycle Gas Turbine Generator	NO <sub>x</sub> (7)	75.5	297.4
		CO	51.1	201.1
		SO <sub>2</sub>	12.8	50.4

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		VOC	1.8	7.2
		PM	6.0	26.3
		PM <sub>10</sub>	6.0	26.3
MSSFUG (5)	Miscellaneous Maintenance Startup and Shutdown Activities	VOC	2.91	0.96
		PM	0.05	0.12
		PM <sub>10</sub>	0.05	0.12
		PM <sub>2.5</sub>	0.05	0.12

- (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) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Short-term pound-per-hour and long term ton-per-year emission rates are derived from two distinct worst-case scenarios outlined in the permit application. Therefore, they are not directly proportional.
- (7) Short-term and annual emission limits after low NO<sub>x</sub> burner retrofit. The low NO<sub>x</sub> burner retrofit was authorized as follows:

EPN	Standard Permit No.	EPN	Standard Permit No.
THWGT-31	80979	THWGT-41	77520
THWGT-32	86896	THWGT-42	79786
THWGT-33	74765	THWGT-43	80980
THWGT-34	74765	THWGT-44	86198

- (8) For each pollutant whose emissions during planned MSS activities are measured using a CEMS, during any clock hour that includes one or more minutes of planned MSS activities, the pollutant's hourly emission limits that apply during planned MSS activities shall apply during that clock hour.
- (9) The tpy emission limit specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities.

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(10) 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.

Date: \_\_\_\_\_