

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 25738 and PSDTX840

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	
			lb/hr (7)	TPY (4)
Simple Cycle Operations				
5A	Unit No. 9 (5) Westinghouse W251B Turbine Natural Gas Firing	NO <sub>x</sub>	63.0	-
		CO	14.2	-
		VOC	4.3	-
		PM	10.6	-
		PM <sub>10</sub>	3.6	-
		SO <sub>2</sub>	1.1	-
5A	Unit No. 9 (5) Westinghouse W251B Turbine Fuel Oil Firing	NO <sub>x</sub>	117.9	-
		CO	128.7	-
		VOC	4.4	-
		PM	47.0	-
		PM <sub>10</sub>	26.0	-
		SO <sub>2</sub>	35.3	

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Combined Cycle Operations				
5	Unit No. 9 + No DB (5) Westinghouse W251B Turbine Natural Gas Firing	NO <sub>x</sub>	37.2	-
		NO <sub>x</sub> (MSS)	100	-
		CO	14.2	-
		CO (MSS)	400	-
		VOC	4.3	-
		PM	10.6	-
		PM <sub>10</sub>	3.6	-
		SO <sub>2</sub>	1.1	-
		NH <sub>3</sub>	9.0	-
5	Unit No. 9 + 60.8 MMBtu/hr DB (5) Westinghouse W251B Turbine Natural Gas Firing	NO <sub>x</sub>	41.1	-
		CO	18.5	-
		VOC	5.2	-
		PM	11.6	-
		PM <sub>10</sub>	4.1	-
		SO <sub>2</sub>	1.2	-
		NH <sub>3</sub>	9.0	-
5	Unit No. 9 + HRSG (5) Westinghouse W251B Turbine Fuel Oil Firing	NO <sub>x</sub>	117.9	-
		CO	128.7	-
		VOC	4.4	-
		PM	47.0	-
		PM <sub>10</sub>	26.0	-
		SO <sub>2</sub>	35.3	-
Annual Emissions				
5 and	Combined Annual Emission (6)	NO <sub>x</sub>	-	174.9
5A (Simple/Combined Cycle Operations)				

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	CO	-	110.3
	VOC	-	21.5
	PM	-	63.5
	PM <sub>10</sub>	-	22.0
	SO <sub>2</sub>	-	14.0
	NH <sub>3</sub>	-	39.4

- (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
- NH<sub>3</sub> - ammonia
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) The pound per hour emission rate includes the emissions from maintenance, startup, and shutdown (MSS).
- (6) The tons per year emission rates include the emissions from MSS.
- (7) 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.

Date: April 24, 2013