

## Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 40496 and PSDTX929

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)
Turbine and Duct Burner (DB) Hourly Limits with DBs Firing Natural Gas Only				
CTG-1	Turbine/HRSG	NO <sub>x</sub>	41.40	-
		NO <sub>x</sub> (MSS)	205.48	-
		CO	90.49	-
		CO (MSS)	1022.56	-
		VOC	9.83	-
		VOC (MSS)	25.00	-
		PM	23.06	-
		SO <sub>2</sub>	35.60	-
		NH <sub>3</sub>	32.80	-
		H <sub>2</sub> SO <sub>4</sub>	3.60	-
CTG-2	Turbine/HRSG	NO <sub>x</sub>	41.40	-
		NO <sub>x</sub> (MSS)	205.48	-
		CO	90.49	-
		CO (MSS)	1022.56	-
		VOC	9.83	-
		VOC (MSS)	25.00	-
		PM	23.06	-
		SO <sub>2</sub>	35.60	-
		NH <sub>3</sub>	32.80	-

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		H <sub>2</sub> SO <sub>4</sub>	3.60	-
Turbine and DB Hourly Limits with DBs Firing Mixtures of Approved Gases				
CTG-1 and CTG-2	Two Turbines/HRSG	NO <sub>x</sub>	349.80	-
		CO	682.70	-
		VOC	25.90	-
		PM	46.10	-
		SO <sub>2</sub>	71.20	-
		NH <sub>3</sub>	65.60	-
		H <sub>2</sub> SO <sub>4</sub>	7.10	-
Turbine and DB Combined Annual Limits for All Fuels Fired in DBs				
CTG-1 and CTG-2	Two Turbines/HRSG DBs	NO <sub>x</sub>	-	379.50
		NO <sub>x</sub> (MSS)	-	3.57
		CO	-	2345.50
		CO (MSS)	-	9.14
		VOC	-	63.00
		VOC (MSS)	-	0.85
		PM	-	189.40
		SO <sub>2</sub>	-	12.60
		NH <sub>3</sub>	-	259.60
		H <sub>2</sub> SO <sub>4</sub>	-	1.30
CTG-CT-1	Cooling Tower	PM	2.48	10.85
CTGFUG	Fugitives (5)	VOC	0.01	0.09
		NH <sub>3</sub>	0.16	0.70
COALESCER	Natural Gas/Liquid Separator	VOC	0.23	1.00
CTGNH3	Ammonia Tank Storage	NH <sub>3</sub>	0.02	0.10

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OVS	Oil/Water Separator	VOC	0.02	0.10
UNLOAD	Unloading Ammonia (AQ) Trucks	NH <sub>3</sub>	0.02	0.10
MAINT	Maintenance, Start-up and Shutdown	VOC	0.02	0.10
CHEMSTOR	Water Treatment Chemical Storage	VOC	0.02	0.10
FUEL-VENT	Fuel Venting	VOC	0.18	<0.01
		CO	<0.01	<0.01
ON-WASH	Online Turbine Water Washing	PM	0.03	<0.01
OFF-WASH	Offline Turbine Washing	VOC	399.40	1.43
COAL-LOAD	Loading of Coalescer Fluid	VOC	0.32	<0.01
COAL-DEPR	Depressuring of Coalescer	VOC	3.30	<0.01
		CO	0.10	<0.01
VAC-LOAD	Vacuum Loading from Tanks/Sumps	VOC	0.68	<0.01
		NH <sub>3</sub>	2.12	<0.01
TANK-DEGAS	Draining and Degassing of Tank	NH <sub>3</sub>	26.49	0.01
CEM-CAL	CEMS Calibration	NO <sub>x</sub>	0.06	<0.01
		CO	0.04	<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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

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- 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
  - H<sub>2</sub>SO<sub>4</sub> - sulfuric acid
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

Date: March 12, 2012