

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emission Rates *</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **

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Permit Numbers 41249 and PSD-TX-940

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. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emission Rates *</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **
STACK1	GT/Unfired HRSG	CO	86.17	338.68
		NO _x	63.4	252.91
		PM ₁₀	18.0	78.84
		SO ₂	11.19	4.47
		VOC	2.8	10.75
STACK2	GT/Unfired HRSG	CO	86.17	338.68
		NO _x	63.4	252.91
		PM ₁₀	18.0	78.84
		SO ₂	11.19	4.47
		VOC	2.8	10.75
STACK3	GT/Unfired HRSG	CO	86.17	338.68
		NO _x	63.4	252.91
		PM ₁₀	18.0	78.84
		SO ₂	11.19	4.47
		VOC	2.8	10.75
STACK4	GT/Unfired HRSG	CO	86.17	338.68
		NO _x	63.4	252.91

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY **
		PM ₁₀	18.0	78.84
		SO ₂	11.19	4.47
		VOC	2.8	10.75
CT-1	Cooling Tower Cells (7)	PM ₁₀	1.31	5.75
CT-2	Cooling Tower 10 Cells (7)	PM ₁₀	1.31	5.75
TOMV1	Turbine Oil Mist	VOC Vent Fugitives (4)	0.03	0.15
TOMV2	Turbine Oil Mist	VOC Vent Fugitives (4)	0.03	0.15
TOMV3	Turbine Oil Mist	VOC Vent Fugitives (4)	0.03	0.15
TOMV4	Turbine Oil Mist	VOC Vent Fugitives (4)	0.03	0.15
TOMV5	Turbine Oil Mist	VOC Vent Fugitives (4)	0.03	0.15
TOMV6	Turbine Oil Mist	VOC Vent Fugitives (4)	0.03	0.15
TANK1	Sodium Hypochlorite Storage Tank	NaOCl	<0.01	<0.01
TANK2	Sodium Hypochlorite Storage Tank	NaOCl	<0.01	<0.01
TANK3	Sulfuric Acid Storage Tank	H ₂ SO ₄	<0.01	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
TANK5	Caustic Storage Tank	NaOH	<0.01	<0.01
TANK7	Diesel Fuel Storage Tank	VOC	0.09	<0.01
TANK8	Sulfuric Acid Storage Tank	H ₂ SO ₄	<0.01	<0.01
TANK9	Sulfuric Acid Storage Tank	H ₂ SO ₄	<0.01	<0.01
FUG-1	Natural Gas Pipeline Fugitive Emissions (6)	VOC	0.03	0.11
FUG-2	Natural Gas Pipeline Fugitive Emissions (6)	VOC	0.02	0.10
FUG-3	Natural Gas Pipeline Fugitive Emissions (6)	VOC	0.01	0.03
DFWP1	Diesel Firewater Pump (5)	CO	3.13	0.16
		NO _x	10.48	0.55
		PM ₁₀	0.20	0.01
		SO ₂	0.74	0.04
		VOC	0.13	0.01

(1) Emission point identification - either specific equipment designation or emission point number.

(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_x - total oxides of nitrogen

CO - carbon monoxide

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀

PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

H₂SO₄ - sulfuric acid
NaOH - sodium hydroxide
NaOCl - sodium hypochlorite

- (4) Turbine oil mist-vent emissions are estimates only based on mist-vent eliminator manufacturer data.
- (5) Emissions are based on non-emergency operation of 104 operating hours per year.
- (6) Fugitive emissions are an estimate based on component count and applicable fugitive emission factors.

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- (7) Cooling tower PM₁₀ emissions are an estimate only based on manufacturers' data. Cooling tower assembly has ten vent fan exhausts; emissions are sum-total of all ten exhausts.

* Emission rates are based on an operating schedule of 8,760 hours/year.

** Compliance with the annual emission limits shall be based on a rolling 12-month year rather than the calendar year.

Dated September 13, 2005