

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 41249 and PSDTX940

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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
STACK1	GT/Unfired HRSG	CO (N.O. and S.S.)	--	338.68
		CO (N.O.)	86.17	--
		CO (S.S.)	1033.09	--
		NO _x (N.O. and S.S.)	--	252.91
		NO _x (N.O.)	63.40	--
		NO _x (S.S.)	339.40	--
		PM/PM ₁₀ /PM _{2.5}	18.00	78.84
		SO ₂	11.19	4.47
		VOC (N.O. and S.S.)	--	10.75
		VOC (N.O.)	2.80	--
		VOC (S.S.)	183.49	--
STACK2	GT/Unfired HRSG	CO (N.O. and S.S.)	--	338.68
		CO (N.O.)	86.17	--
		CO (S.S.)	1033.09	--
		NO _x (N.O. and S.S.)	--	252.91
		NO _x (N.O.)	63.40	--
		NO _x (S.S.)	339.40	--
		PM/PM ₁₀ /PM _{2.5}	18.00	78.84
		SO ₂	11.19	4.47
		VOC (N.O. and S.S.)	--	10.75
		VOC (N.O.)	2.80	--
		VOC (S.S.)	183.49	--

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			lb/hr	TPY**
STACK3	GT/Unfired HRSG	CO (N.O. and S.S.)	--	338.68
		CO (N.O.)	86.17	--
		CO (S.S.)	1033.09	--
		NO _x (N.O. and S.S.)	--	252.91
		NO _x (N.O.)	63.40	--
		NO _x (S.S.)	339.40	--
		PM/PM ₁₀ /PM _{2.5}	18.00	78.84
		SO ₂	11.19	4.47
		VOC (N.O. and S.S.)	--	10.75
		VOC (N.O.)	2.80	--
		VOC (S.S.)	183.49	--
STACK4	GT/Unfired HRSG	CO (N.O. and S.S.)	--	338.68
		CO (N.O.)	86.17	--
		CO (S.S.)	1033.09	--
		NO _x (N.O. and S.S.)	--	252.91
		NO _x (N.O.)	63.40	--
		NO _x (S.S.)	339.40	--
		PM/PM ₁₀ /PM _{2.5}	18.00	78.84
		SO ₂	11.19	4.47
		VOC (N.O. and S.S.)	--	10.75
		VOC (N.O.)	2.80	--
		VOC (S.S.)	183.49	--
CT-1	Cooling Tower 10 Cells (7)	PM ₁₀ /PM _{2.5}	1.31	5.75
CT-2	Cooling Tower 10 Cells (7)	PM ₁₀ /PM _{2.5}	1.31	5.75
TOMV1	Turbine Oil Mist Vent Fugitives (4)	VOC	0.03	0.15

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TOMV2	Turbine Oil Mist Vent Fugitives (4)	VOC	0.03	0.15
TOMV3	Turbine Oil Mist Vent Fugitives (4)	VOC	0.03	0.15
TOMV4	Turbine Oil Mist Vent Fugitives (4)	VOC	0.03	0.15
TOMV5	Turbine Oil Mist Vent Fugitives (4)	VOC	0.03	0.15
TOMV6	Turbine Oil Mist Vent Fugitives (4)	VOC	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
TANK5	Caustic Storage Tank	NaOH	<0.01	<0.01

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TANK7	Diesel Fuel Storage Tank	VOC	0.09	<0.01
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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
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 /PM _{2.5}	0.20	0.01
		SO ₂	0.74	0.04
		VOC	0.13	0.01

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- (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 and PM_{2.5}.
PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter.
H₂O₄ - sulfuric acid
NaOH - sodium hydroxide
NaOCl - sodium hypochlorite
N.O. - normal operating conditions
S.S. - startup and shutdown activities
- (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.
- (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: April 9, 2010