

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 43965, PSD-TX-966, and N-026

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
HRSG-001	Heat Recovery Steam Generator GE Frame 7F Turbine	NO <sub>x</sub>	32.4	104.6
		CO	92.4	215.6
		VOC	9.5	26.0
		SO <sub>2</sub>	7.2	6.2
		PM/PM <sub>10</sub>	38.6	104.4
		NH <sub>3</sub>	18.2	79.7
		H <sub>2</sub> SO <sub>4</sub>	1.3	0.95
HRSG-002	Heat Recovery Steam Generator GE Frame 7F Turbine	NO <sub>x</sub>	32.4	104.6
		CO	92.4	215.6
		VOC	9.5	26.0
		SO <sub>2</sub>	7.2	6.2
		PM/PM <sub>10</sub>	38.6	104.4
		NH <sub>3</sub>	18.2	79.7
		H <sub>2</sub> SO <sub>4</sub>	1.3	0.95
HRSG-003	Heat Recovery Steam Generator GE Frame 7F Turbine	NO <sub>x</sub>	32.4	108.4
		CO	92.4	227.2
		VOC	10.3	27.6

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lb/hr	TPY
		SO <sub>2</sub>	7.2	6.4
		PM/PM <sub>10</sub>	38.6	104.4
		NH <sub>3</sub>	19.6	85.8
		H <sub>2</sub> SO <sub>4</sub>	1.3	0.95
HRSG-004	Heat Recovery Steam Generator GE Frame 7F Turbine	NO <sub>x</sub>	32.4	108.4
		CO	92.4	227.2
		VOC	10.3	27.6
		SO <sub>2</sub>	7.2	6.4
		PM/PM <sub>10</sub>	38.6	104.4
		NH <sub>3</sub>	19.6	85.8
		H <sub>2</sub> SO <sub>4</sub>	1.3	0.95
FW PUMP-1	300-hp Fire Water Pump	NO <sub>x</sub>	9.3	0.47
		CO 2.0	0.10	
		VOC 0.75	0.38	
		SO <sub>2</sub> 0.62	0.03	
		PM/PM <sub>10</sub> 0.66	0.03	
FW PUMP-2	300-hp Fire Water Pump	NO <sub>x</sub>	9.3	0.47
		CO 2.0	0.10	
		VOC 0.75	0.38	
		SO <sub>2</sub> 0.62	0.03	
		PM/PM <sub>10</sub> 0.66	0.03	
LVC GT-001	Gas Turbine 1 Lube Oil Vent	VOC	0.04	0.19
LVC GT-002	Gas Turbine 2 Lube Oil Vent	VOC	0.04	0.19
LVC GT-003	Gas Turbine 3 Lube Oil Vent	VOC	0.04	0.19
LVC GT-004	Gas Turbine 4 Lube Oil Vent	VOC	0.04	0.19
LVSTG-001	Steam Turbine 1 Lube Oil Vent	VOC	0.03	0.11
LVSTG-002	Steam Turbine 2 Lube Oil Vent	VOC	0.03	0.11

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lb/hr	TPY
CT-001	Cooling Tower	PM/PM <sub>10</sub>	1.58	3.5
CT-002	Cooling Tower	PM/PM <sub>10</sub>	1.58	3.5
TK-DSL1	Diesel Tank 1	VOC	0.003	0.01
TK-DSL2	Diesel Tank 2	VOC	0.003	0.01
TK-001	Caustic Tank 1	Caustic	<0.01	<0.01
TK-002	Caustic Tank 2	Caustic	<0.01	<0.01
TK-003	H <sub>2</sub> SO <sub>4</sub> Tank	H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
TK-004	H <sub>2</sub> SO <sub>4</sub> Tank	H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
FUG-P	Natural Gas Piping Fugitives (4)	VOC	0.346	1.52
FUG-NH3A	Ammonia Fugitives (4)	NH <sub>3</sub>	0.0002	0.001
FUG-NH3B	Ammonia Fugitives (4)	NH <sub>3</sub>	0.0002	0.001

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources use area name or fugitive source name.
- (3) NO<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
SO<sub>2</sub> - sulfur dioxide  
PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.  
PM<sub>10</sub> - 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.  
NH<sub>3</sub> - ammonia  
H<sub>2</sub>SO<sub>4</sub> - sulfuric acid
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

\* Gas turbine emission rates are based on and the gas turbine is limited by the following maximum

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			lb/hr	TPY

operating schedule:

Hrs/day 24 Days/week 7 Hours/year 8,760

Dated December 31, 2002