EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 80289, PSDTX1082, and PAL 9

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**
CBY41a	Combustion Turbine 41	NO_x	28.0	93.0
	Combined Cycle Stack	NO_x (4)	206.0	---
		SO_2	17.7	11.6
		CO	72.3	284.0
		CO (4)	2890.0	---
		VOC	5.5	10.8
		VOC (4)	48.00	---
		PM_{10}	15.5	51.0
		H_2SO_4	2.7	1.8
		NH_3	20.5	80.3
		H_2CO (6)	0.47	1.8
CBY41b	Combustion Turbine 41	NO_x	71.0	128.0
	Simple Cycle Stack	NO_x (4)	206.0	---
		SO_2	17.7	5.3
		CO	72.3	129.5
		CO (4)	2890.0	---
		VOC	5.5	4.9
		VOC (4)	48.0	---
		PM_{10}	15.5	23.3
		H_2SO_4	2.7	0.80
		H_2CO	0.47	0.80
CBY41-LOV	Combustion Turbine 41 Lube Oil Vent	PM_{10}	0.05	0.22

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CBY42a	Combustion Turbine 42	NO_x	28.0	93.0
	Combined Cycle Stack	NO_x (4)	206.0	---
		SO_2	17.7	11.6
		CO	72.3	284.0
		CO (4)	2890.0	---
		VOC	5.5	10.8
		VOC (4)	48.0	---
		PM_{10}	15.5	51.0
		H_2SO_4	2.7	1.8
		NH_3	20.5	80.3
		H_2CO (6)	0.47	1.8
CBY42b	Combustion Turbine 42	NO_x	71.0	128.0
	Simple Cycle Stack	NO_x (4)	206.0	---
		SO_2	17.7	5.3
		CO	72.3	129.5
		CO (4)	2890.0	---
		VOC	5.5	4.9
		VOC (4)	48.0	---
		PM_{10}	15.5	23.3
		H_2SO_4	2.7	0.8
		H_2CO (6)	0.47	0.8
CBY42-LOV	Combustion Turbine 42 Lube Oil Vent	PM_{10}	0.05	0.22
U4ST-LOV	Unit 4 Steam Turbine Lube Oil Vent	PM_{10}	0.05	0.22
CBY51	Combustion Turbine 51	NO_x	8.4	17.0
	Simple Cycle Stack	NO_x (4)	16.3	---
		SO_2	3.8	1.30

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		CO	25.4	52.7
		CO (4)	68.7	---
		VOC	2.6	1.8
		VOC (4)	3.5	---
		PM_{10}	10.2	13.9
		H_2SO_4	2.9	1.0
		NH_3	4.3	9.0
		H_2CO (6)	0.10	0.2
CBY51-LOV	Combustion Turbine 51 Lube Oil Vent	PM_{10}	0.05	0.22
CBY52	Combustion Turbine 52	NO_x	8.4	17.0
	Simple Cycle Stack	NO_x (4)	16.3	---
		SO_2	3.8	1.3
		CO	25.4	52.7
		CO (4)	68.7	
		VOC	2.6	1.8
		VOC (4)	3.5	
		PM_{10}	10.2	13.9
		H_2SO_4	2.9	1.0
		NH_3	4.3	9.0
		H_2CO (6)	0.10	0.2
CBY52-LOV	Combustion Turbine 52 Lube Oil Vent	PM_{10}	0.05	0.22
CBY53	Combustion Turbine 53	NO_x	8.4	17.0
	Simple Cycle Stack	NO_x (4)	16.3	---
		SO_2	3.8	1.3
		CO	25.4	52.7
		CO	68.7	---
		VOC	2.6	1.8
		VOC (4)	3.5	---
		PM_{10}	10.2	13.9
		H_2SO_4	2.9	1.0

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		NH_3	4.3	9.0
		H_2CO (6)	0.10	0.2
CBY53-LOV	Combustion Turbine 53 Lube Oil Vent	PM_{10}	0.05	0.22
CBY54	Combustion Turbine 54	NO_x	8.4	17.0
	Simple Cycle Stack	NO_x (4)	16.3	---
		SO_2	3.8	1.3
		CO	25.4	52.7
		CO (4)	68.7	---
		VOC	2.6	1.8
		VOC (4)	3.5	---
		PM_{10}	10.2	13.9
		H_2SO_4	2.9	1.0
		NH_3	4.3	9.0
		H_2CO (6)	0.10	0.2
CBY54-LOV	Combustion Turbine 54	PM_{10}	0.05	0.22
CBY55	Combustion Turbine 55	NO_x	8.4	17.0
	Simple Cycle Stack	NO_x (4)	16.3	---
		SO_2	3.8	1.3
		CO	25.4	52.7
		CO (4)	68.7	---
		VOC	2.6	1.8
		VOC (4)	3.5	---
		PM_{10}	10.2	13.9
		H_2SO_4	2.9	1.0
		NH_3	4.3	9.0
		H_2CO (6)	0.10	0.2
CBY55-LOV	Combustion Turbine 55	PM_{10}	0.05	0.22

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	Lube Oil Vent			
CBY56	Combustion Turbine 56	NO_x	8.4	17.0
	Simple Cycle Stack	NO_x (4)	16.3	---
		SO_2	3.8	1.3
		CO	25.4	52.7
		CO	68.7	---
		VOC	2.6	1.8
		VOC (4)	3.5	---
		PM_{10}	10.2	13.9
		H_2SO_4	2.9	1.0
		NH_3	4.3	9.0
		H_2CO (6)	0.10	0.2
CBY56-LOV	Combustion Turbine 56 Lube Oil Vent	PM_{10}	0.05	0.22
CBY57	Combustion Turbine 57	NO_x	8.4	17.0
	Simple Cycle Stack	NO_x (4)	16.3	---
		SO_2	3.8	1.3
		CO	25.4	52.7
		CO (4)	68.7	---
		VOC	2.6	1.8
		VOC (4)	3.5	---
		PM_{10}	10.2	13.9
		H_2SO_4	2.9	1.0
		NH_3	4.3	9.0
		H_2CO (6)	0.10	0.2
CBY57-LOV	Combustion Turbine 57 Lube Oil Vent	PM_{10}	0.05	0.22
CBY58	Combustion Turbine 58	NO_x	8.4	17.0

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

	Simple Cycle Stack	NO_x (4)	16.3	---
		SO_2	3.8	1.3
		CO	25.4	52.7
		CO (4)	68.7	---
		VOC	2.6	1.80
		VOC (4)	3.5	---
		PM_{10}	10.2	13.9
		H_2SO_4	2.9	1.0
		NH_3	4.3	9.0
		H_2CO (6)	0.10	0.2
CBY58-LOV	Combustion Turbine 58 Lube Oil Vent	PM_{10}	0.05	0.22
BS-GEN	Black Start Generator	NO_x	11.80	2.95
		CO	0.53	0.13
		PM_{10}	0.05	0.01
		VOC	2.54	0.64
		SO_2	0.38	0.09
C-Tower1	Cooling Tower 1	PM_{10}	0.84	3.68
C-Tower 2	Cooling Tower 2	PM_{10}	0.14	0.63
C-Tower 3	Cooling Tower 3	PM_{10}	0.14	0.63
FUG-NAS	Fugitives: Natural Gas (5)	VOC	0.17	0.74
FUG-SCR	Fugitives: SCR Piping (5)	NH_3	0.02	0.10
(All Sitewide NO_x EPNs at RN10082537)	Plantwide Applicability Limit (PAL)	NO_x	---	2004.92

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(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 an 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
SO_2 - sulfur dioxide
PM_{10} - particulate matter (PM), suspended in the atmosphere, equal to or less than 10 microns in diameter
CO - carbon monoxide
H_2SO_4 - sulfuric acid
NH_3 - ammonia
H_2CO - formaldehyde
(4) Emission limits during startup, shutdown, or maintenance operations.
(5) Fugitive emissions are an estimate only, and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
(6) The formaldehyde emission limits and initial demonstration of compliance become effective upon the EPA either lifting the stay that applies to lean premix gas-fired turbines and diffusion flame gas-fired turbines or taking final action declining to remove these subcategories from the source category list. (See 69 Fed. Reg. 51184 (August 18, 2004), available at: http://www.epa.gov/ttn/atw/turbine/fr18au04.pdf).

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated September 29, 2009