

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 46189, PSD-TX-1103, and N71

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)	<u>Emission Rates *</u>	
			lb/hr	TPY**
BLR-7	Boiler No. 7 (Firing Natural Gas)	NO _x	5.45	-
		CO	9.97	-
		VOC	0.82	-
		SO ₂	0.09	-
		PM ₁₀	1.13	-
	Boiler No. 7 (Firing No. 2 Fuel Oil)	NO _x	10.80	-
		CO	5.40	-
		VOC	0.22	-
		SO ₂	7.67	-
		PM ₁₀	3.57	-
	Boiler No. 7 (Annual Allowables)	NO _x	-	8.61
		CO	-	43.67
		VOC	-	3.58
		SO ₂	-	3.13
		PM ₁₀	-	5.84
BLR-8	Boiler No. 8 (Firing Natural Gas)	NO _x	5.45	-
		CO	9.97	-
		VOC	0.82	-
		SO ₂	0.09	-
		PM ₁₀	1.13	-
	Boiler No. 8 (Firing No. 2 Fuel Oil)	NO _x	10.80	-
		CO	5.40	-
		VOC	0.22	-
		SO ₂	7.67	-
		PM ₁₀	3.57	-
	Boiler No. 8 (Annual Allowables)	NO _x	-	8.61
		CO	-	43.67
		VOC	-	3.58
		SO ₂	-	3.13
		PM ₁₀	-	5.84
			-	

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BLR-2	Boiler No. 2 (Natural Gas Only)	NO _x	4.90	6.44
		CO	12.06	52.91
		VOC	0.88	3.86
		SO ₂	0.10	0.42
		PM ₁₀	1.22	5.33
CHP-1	CHP Unit 1	NO _x	10.71	40.22
		NO _x (5)	203.00	-
		CO	64.25	234.51
		CO (5)	923.00	-
		VOC	7.79	(6)
		VOC (5)	18.00	
		PM ₁₀	13.00	56.94
		SO ₂	4.65	10.19
		H ₂ SO ₄	0.71	1.56
		NH ₃	11.31	34.68
CHP-2	CHP Unit 2	NO _x	10.71	40.22
		NO _x (5)	203.00	-
		CO	64.25	234.51
		CO (5)	923.00	-
		VOC	7.79	(6)
		VOC (5)	18.00	
		PM ₁₀	13.00	56.94
		SO ₂	4.65	10.19
		H ₂ SO ₄	0.71	1.56
		NH ₃	11.31	34.68
FUGNGCHP	CHP Natural Gas Fugitives (4)	VOC	0.15	0.64
FUGNH3	Ammonia Fugitives (4)	NH ₃	1.26	5.50
CTF501- CTF508	West Cooling Tower 2	PM ₁₀	2.00	8.77
CTF601- CTF610	Chiller Building Cooling Tower	PM ₁₀	4.00	17.53

- (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) NO_x - total oxides of nitrogen

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VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
SO₂ - sulfur dioxide
PM₁₀ - particulate matter equal to or less than 10 microns in diameter
CO - carbon monoxide
H₂SO₄ - sulfuric acid mist
NH₃ - ammonia

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
(5) Start-up and Shutdown emissions
(6) VOC emissions from CHP-1 and CHP-2 are limited to a combined total of 17.0 tpy

* Emission rates are based on the firing of natural gas and No. 2 fuel oil.

The facilities are limited by the following maximum operating schedule when firing natural gas:

8,760 Hrs/year, and

BLR-7 and BLR-8 are limited by the following maximum operating schedule when firing No. 2 fuel oil:

720 Hrs/year

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

Date July 29, 2008