

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 48437

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant property covered by this permit. The emission rates shown are those derived from the 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

Before emission control upgrade to meet Special Condition No. 1:

17A	Boiler Nos. 1 and 2 (Lignite-fired, 130 MW each) 1,965	NO _x	1,920	8,400
		Sulfur dioxide	12,000	43,200
		Carbon monoxide		449
		PM/PM ₁₀	300	1,080
		VOC	30	108
		Hydrogen chloride	30	47
		Hydrogen fluoride	6.0	7.7
		Sulfuric acid	21	76
		Antimony	0.019	0.031
		Arsenic	1.3	5.1
		Barium	4.4	6.0
		Beryllium	0.050	0.056
		Cadmium	0.037	0.037
		Chromium	0.38	0.77
		Cobalt	0.10	0.21
		Copper	0.58	1.2
		Lead	0.29	0.46
		Manganese	4.8	4.7

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		Mercury	0.21	0.31
		Nickel	0.39	0.28
		Selenium	2.7	3.4
		Vanadium	1.0	2.0
17B	Boiler No. 3 (Lignite-fired, 130 MW)	NO _x	960	4,200
		Sulfur dioxide	6,000	21,600
		Carbon monoxide	224	982
		PM/PM ₁₀	150	540
		VOC	15	54
		Hydrogen chloride	15	24
		Hydrogen fluoride	3.0	3.8
		Sulfuric acid	11	38
		Antimony	0.0093	0.015
		Arsenic	0.65	2.5
		Barium	2.2	3.0
		Beryllium	0.025	0.028
		Cadmium	0.018	0.019
		Chromium	0.19	0.38
		Cobalt	0.052	0.11
		Copper	0.29	0.58
		Lead	0.14	0.23
		Manganese	2.4	2.4
		Mercury	0.10	0.15
		Nickel	0.20	0.14
		Selenium	1.3	1.7
		Vanadium	0.51	1.0

Combined boiler emissions before emission control upgrade to meet Special Condition No. 1:

17A + 17B	Total	NO _x	--	9,730
-----------	-------	-----------------	----	-------

After emission control upgrade to meet Special Condition No. 1:

17A	Boiler Nos. 1 and 2 (Lignite-fired, 130 MW each)	NO _x	1,472	6,446
		Sulfur dioxide	1,083	4,320
		Carbon monoxide		449

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
	1,965	PM/PM ₁₀	153	551
		VOC	30	108
		Hydrogen chloride	15	24
		Hydrogen fluoride	3.0	3.8
		Sulfuric acid	11	38
		Ammonia	18	79
		Antimony	0.009	0.015
		Arsenic	0.65	2.5
		Barium	2.2	3.0
		Beryllium	0.025	0.028
		Cadmium	0.018	0.019
		Chromium	0.19	0.38
		Cobalt	0.052	0.11
		Copper	0.29	0.58
		Lead	0.13	0.23
		Manganese	2.4	2.4
		Mercury	0.087	0.15
		Nickel	0.20	0.14
		Selenium	1.3	1.7
		Vanadium	0.51	1.0
17B	Boiler No. 3 (Lignite-fired, 130 MW)	NO _x	736	3,223
		Sulfur dioxide	542	2,160
		Carbon monoxide	224	982
		PM/PM ₁₀	77	275
		VOC	15	54
		Hydrogen chloride	7.6	12
		Hydrogen fluoride	1.5	1.9
		Sulfuric acid	5.3	19
		Ammonia	9	40
		Antimony	0.0047	0.0077
		Arsenic	0.32	1.3
		Barium	1.1	1.5
		Beryllium	0.013	0.014
		Cadmium	0.009	0.0093

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		Chromium	0.09	0.19
		Cobalt	0.026	0.053
		Copper	0.14	0.29
		Lead	0.071	0.11
		Manganese	1.2	1.2
		Mercury	0.044	0.077
		Nickel	0.10	0.071
		Selenium	0.67	0.86
		Vanadium	0.26	0.50

Combined boiler emissions after emission control upgrade to meet Special Condition No. 1:

17A + 17B	Total	NO _x	--	7,438
		Sulfur dioxide	--	5,677

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source name. For fugitive sources, use an area name or fugitive source name.
- (3) NO_x - total oxides of nitrogen, expressed as nitrogen dioxide
- VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- PM - particulate matter suspended in the atmosphere, including PM₁₀.
- PM₁₀ - particulate matter equal to or less than 10 microns in diameter. About 75 percent of the PM is thought to be PM₁₀ from these sources, but the exact split between PM and PM₁₀ is not established in this limit.

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

_____Hrs/day ___Days/week ___Weeks/year or 8,760 Hrs/year

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

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

Dated November 1, 2002