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.

Emission Point No. (1)	Source A Name (2)	Air Contaminant Name (3)	<u>Emissi</u> lb/hr (4	on Rates *) TPY (5)
Existing, original boilers				
17A	Boiler Nos. 1 and 2 (Lignite-fired, 1500 MMBtu/hr each)	NO _x Sulfur dioxide Carbon monoxide PM/PM ₁₀ VOC Hydrogen chloride Hydrogen fluoride Sulfuric acid Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Manganese Mercury Nickel Selenium Vanadium	1,920 12,000 449 300 30 30 6.0 21 0.019 1.3 4.4 0.050 0.037 0.38 0.10 0.58 0.29 4.8 0.21 0.39 2.7 1.0	8,400 43,200 1,965 1,080 108 47 7.7 76 0.031 5.1 6.0 0.056 0.037 0.77 0.21 1.2 0.46 4.7 0.31 0.28 3.4 2.0

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emissic lb/hr (4)	on Rates *) TPY (5)
17B	Boiler No. 3 (Lignite-fired, 1500 MMBtu/hr)	NO _x Sulfur dioxide Carbon monoxide PM/PM ₁₀ VOC Hydrogen chloride Hydrogen fluoride Sulfuric acid Antimony Arsenic Barium Beryllium Cadmium Chromium Chromium Cobalt Copper Lead Manganese Mercury Nickel Selenium Vanadium	960	4,200 21,600 982 540 54 24 3.8 38
Combined existing boiler emissions:				
17A + 17B	Total	NO _x		9,730
Replacement Boilers:				
17CFB	Circulating Fluid Bed Boiler No. 1 (Lignite-fired, 2960 MMBtu/hr)	NO _x Sulfur dioxide Carbon monoxide PM/PM ₁₀	296 592 296 44.4	1,296 2,593 1,296 194
Replacement Boilers (cont'd):				

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emissio lb/hr (4)	n Rates * TPY (5)
17CFB		VOC Hydrogen chloride Hydrogen fluoride Sulfuric acid Ammonia Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Manganese Mercury Nickel Selenium Vanadium	15.1 0.66 0.78 6.2 15.9 0.0061 0.077 1.4 0.016 0.0024 0.12 0.034 0.19 0.085 1.6 0.033 0.13 0.12 0.33	66 1.0 1.0 27 55 0.010 0.088 2.0 0.018 0.0024 0.25 0.069 0.38 0.14 1.5 0.048 0.092 0.15 0.65
17CFB	Circulating Fluid Bed Boiler No. 2 (Lignite-fired, 2960 MMBtu/hr)	NO _x Sulfur dioxide Carbon monoxide PM/PM ₁₀ VOC Hydrogen chloride Hydrogen fluoride Sulfuric acid Ammonia Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper	296 592 296 44.4 15.1 0.66 0.78 6.2 15.9 0.0061 0.077 1.4 0.016 0.0024 0.12 0.034 0.19	1,296 2,593 1,296 194 66 1.0 1.0 27 55 0.010 0.088 2.0 0.018 0.0024 0.25 0.069 0.38

Emission	Source	Air Contaminant		n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr (4)	TPY (5)
		Lead Manganese Mercury Nickel Selenium Vanadium	0.085 1.6 0.033 0.13 0.12 0.33	0.14 1.5 0.048 0.092 0.15 0.65
17CFB	Circulating Fluid Bed Boiler Nos. 1 and 2, combined emissions PM/PM ₁₀	NO _x Sulfur dioxide Carbon monoxide 89 VOC Hydrogen chloride Hydrogen fluoride Sulfuric acid Ammonia Antimony Arsenic Barium Beryllium Cadmium Chromium Chromium Cobalt Copper Lead Manganese Mercury Nickel Selenium Vanadium	592 1,184 592 389 30 1.3 1.6 12.4 32 0.012 0.15 2.9 0.033 0.0048 0.24 0.067 0.37 0.17 3.2 0.065 0.26 0.23 0.67	2,593 5,186 2,593 132 2.1 2.0 54 111 0.020 0.18 3.9 0.036 0.0048 0.50 0.14 0.75 0.27 3.1 0.10 0.18 0.30 1.3
19AQA	Aqueous Ammonia Storage Tank	Ammonia	12.1	1.76

Emission	Source	Air Contaminant	Emission Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr (4) TPY (5)

- (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. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
- (4) For pollutants which are not required by this permit to be monitored with a continuous emissions monitor system (CEMS), compliance with the hourly emission limits is based on a three-hour average of stack tests. For pollutants which are required by this permit to be monitored with a CEMS, compliance with the hourly emission limits is based on a 30-day rolling average of the hourly CEMS data. With the first amendment, alteration or renewal of this permit following two years of operation with a certified CEMS, the holder of this permit shall submit hourly emission data from the CEMS which will be considered in establishing new hourly limits for the monitored pollutants based on a one-hour average.
- (5) Compliance with annual emission limits is based on a rolling 12-month period. Annual emissions of trace elements (antimony, arsenic, barium, beryllium, cadmium, chloride, chromium, cobalt, copper, fluoride, lead, manganese, mercury, nickel, selenium, and vanadium) are based on average concentration measurements in the lignite, whereas hourly emissions are based on maximum concentrations in the lignite. Compliance with the annual trace element emission limits may be established if the initial demonstration of compliance testing of trace element emissions supports the removal efficiencies represented in the permit application and trace element concentrations in the lignite remain consistent with representations in the permit application.

^{*}CFB annual emissions are based on 8,760 hours per year operation at maximum firing rate (2,960 MMBtu/hr).