

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 18426 and PSD-TX-742M1

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**
A-1	63.5 MMBtu/hr Auxilliary Boiler (4)	NO _x	8.9	4.1
		CO	2.2	1.0
		SO ₂	0.04	0.02
		VOC	0.18	0.08
		PM/PM ₁₀	0.32	0.15
A-2	63.5 MMBtu/hr Auxilliary Boiler (4)	NO _x	8.9	4.1
		CO	2.2	1.0
		SO ₂	0.04	0.02
		VOC	0.18	0.08
		PM/PM ₁₀	0.32	0.15
EAD-3	Economizer Ash Load-out Trucks	PM/PM ₁₀	0.01	0.01
EAS-3	Economizer Ash to Storage Silo -- Spruce 1	PM/PM ₁₀	0.08	0.09
F-BA	Bottom Ash Landfill	PM	0.15	0.65
		PM ₁₀	0.07	0.30
U-5	595 MW Coal-Fired Steam Electric Generating Unit - J.K. Spruce 1 (5)	NO _x (6)	2783	7315
		CO (6)	3002	6761
		SO ₂	6678	7315
		VOC	110	48
		PM/PM ₁₀	167	731
		Be	0.04	0.018
		Pb	0.07	0.31
		Hg	1.15	5.04
		HF	0.8	3.6

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		H ₂ SO ₄	28.5	124.7
U-5	30-day rolling average	NO _x	---	0.30
	30-day rolling average	CO (6)	1670	---
	30-day rolling average	SO ₂ (7)	1948	0.35
	3-hour rolling average	SO ₂ (7)	3339	0.60
	1-hour rolling average	SO ₂	---	1.20
	30-day rolling average	VOC	11	---
	1-hour rolling average	PM (8)	---	0.03

- (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
 SO₂ - sulfur dioxide
 PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 PM₁₀ - particulate matter equal to or less than 10 microns in diameter
 PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 CO - carbon monoxide
 Be - beryllium
 HF - hydrogen fluoride
 Pb - lead
 HI - hydrogen iodide
 Hg - mercury
 H₂SO₄ - sulfuric acid mist
- (4) State permit only (not covered by PSD-TX-742M1). Annual emissions for Boilers A-1 and A-2 are based on an annual capacity factor of 10.5 percent. The annual capacity factor is defined as the total amount of fuel as MMBtu (HHV) consumed by the boiler divided by the total amount of fuel as MMBtu (HHV) which the boiler could have consumed if operated at maximum capacity for 8,760 hours/year.
- (5) Also subject to the NO_x and SO₂ emissions caps in Permit Number 70492.
- (6) Authorized by Standard Permit Number 52617.
- (7) 70 percent reduction.
- (8) As determined by EPA Reference Method 5, front half of sampling train only.

* 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

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

Dated November 1, 2007