

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 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 <sub>x</sub>	8.9	4.1
		CO	2.2	1.0
		SO <sub>2</sub>	0.04	0.02
		VOC	0.18	0.08
		PM/PM <sub>10</sub>	0.32	0.15
A-2	63.5 MMBtu/hr Auxilliary Boiler (4)	NO <sub>x</sub>	8.9	4.1
		CO	2.2	1.0
		SO <sub>2</sub>	0.04	0.02
		VOC	0.18	0.08
		PM/PM <sub>10</sub>	0.32	0.15
EAD-3	Economizer Ash Load- out Trucks (5)	PM/PM <sub>10</sub>	0.01	0.01
EAS-3	Economizer Ash to Storage Silo -- Spruce 1 (5)	PM/PM <sub>10</sub>	0.08	0.09
U-5	595 MW Coal-Fired Steam Electric Generating Unit - J.K. Spruce 1 (6)	NO <sub>x</sub>	1002	4388
		CO	2669	6761
		SO <sub>2</sub>	6678	12187
		VOC	110	48
		PM/PM <sub>10</sub>	167	731
		Be	0.04	0.18
		Pb	0.07	0.31
		Hg	1.15	5.04
		HF	0.8	3.6

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H<sub>2</sub>SO<sub>4</sub>

28.5

124.7

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Emission Point No. (1)	Averaging Time	Air Contaminant Name (3)	lb/hr	lb/MMBtu
U-5	30-day rolling average	NO <sub>x</sub>	---	0.18
	30-day rolling average	CO	1668	---
	30-day rolling average	SO <sub>2</sub> (7)	2783	0.50
	3-hour rolling average	SO <sub>2</sub> (7)	3339	0.60
	1-hour rolling average	SO <sub>2</sub>	---	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<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>

PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter

PM<sub>2.5</sub> - 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

H<sub>2</sub>SO<sub>4</sub> - 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) PSD only, also covered by Permit No. 18430

(6) Also subject to the NO<sub>x</sub> emissions cap in Permit No. 70492.

(7) 70 percent reduction.

(8) As determined by EPA Reference Method 5, front half of sampling train only.

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

   Hrs/day    Days/week    Weeks/year or 8760 Hrs/year

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