

Emission Sources - Maximum Allowable Emission Rates

Permit Number 18426 and PSDTX742M1

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, sources, and related activities. 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*	
			lbs/hour (9)(10)	TPY(9)(11)
A-1	Auxiliary Boiler (63.5 MMBtu/hr) (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	Auxiliary Boiler (63.5 MMBtu/hr) (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
		CO (6) (30-day rolling average)	1670	-
		SO ₂	6678	7315
		SO ₂ (7) (30-day rolling average)	1948	-

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	SO ₂ (7) (3-hour rolling average)	3339	-
	VOC	110	48
	VOC (30-day rolling average)	11	-
	PM/PM ₁₀ (8)	167	731
	Be	0.04	0.18
	Pb	0.07	0.31
	Hg	1.15	5.04
	HF	0.8	3.6
	H ₂ SO ₄	28.5	124.7

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use 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 - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}
CO - carbon monoxide
Be - beryllium
HF - hydrogen fluoride
Pb - lead
Hg - mercury
H₂SO₄ - sulfuric acid mist
- (4) 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 and PSDTX1037.
- (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.
- (9) The pound per hour and ton per year emission limits specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities, unless otherwise noted.

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- (10) For each pollutant whose emissions during planned MSS activities are measured using a CEMS, the MSS lb/hr limits apply only during each clock hour that includes one or more minutes of MSS activities. During all other clock hours, the normal lb/hr limits apply.
- (11) Compliance with annual emission limits is based on a rolling 12-month period.

* 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

Dated: _____