

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 78744 and PSD-TX-1069

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*
MO-B4S	Unit 4 Pulverized Coal Boiler Stack (8,647 MMBtu/hr)	NO _x (1-hr)	1,730	1,893.7
		NO _x (30-day)	605.3	--
		SO ₂ (1-hr)	3,153	3,787.4
		SO ₂ (3-hr)	2,594	--
		SO ₂ (30-day)	1,038	--
		PM/PM ₁₀ (5)	129.7	568.1
		PM/PM ₁₀ (6)	345.9	1,514.9
		CO (1-hr)	3,458.8	5,681
		VOC	46.7	136.4
		H ₂ SO ₄ 129	140.13	
		H ₂ SO ₄ (24-hr)	99	--
		NH ₃ 59.2	77.8	
		HF 143.2	28.03	
		HCl 521	56.81	
		Pb 0.58	0.44	
		Hg 0.99	0.08	
MO-AB4S	Auxiliary Boiler 4 Stack (250 MMBtu/hr)	NO _x	22.5	9.86
		SO ₂	13.0	5.67
		CO	18.75	8.21
		PM/PM ₁₀	7.5	3.29
		VOC	0.4	0.16
		H ₂ SO ₄ 0.62	0.27	
		HCl 0.23	0.10	
		Pb 0.002	0.001	
		Hg 0.001	0.0003	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates **	
			lb/hr	TPY*
MO-DEG4S	Diesel Emergency Generator 4 Stack	NO _x	105.00	45.99
		SO ₂	1.77	0.78
		CO	24.06	10.54
		PM/PM ₁₀	3.06	1.34
		VOC	2.81	1.23
MO-DFWP4S	Diesel Fire Water Pump 4 Stack	NO _x	13.95	6.11
		CO	3.01	1.32
		SO ₂	0.18	0.08
		PM/PM ₁₀	0.99	0.43
		VOC	1.11	0.49
MO4CTT1F	Unit 4 Transfer Tower 1 Fugitives (4)	PM	0.01	0.01
		PM ₁₀	0.01	0.01
MO4CTHF	Unit 4 Coal Transfer Hopper Fugitives (4)	PM	0.65	0.84
		PM ₁₀	0.13	0.16
MO4CTHBFF	Unit 4 Coal Transfer Hopper Belt Feeders Fugitives (4)	PM	0.01	0.01
		PM ₁₀	0.01	0.01
MO4CLW1F	Unit 4 Coal Lowering Well 1 Fugitives (4)	PM	0.01	0.01
		PM ₁₀	0.01	0.01
MO4CLW2F	Unit 4 Coal Lowering Well 2 Fugitives (4)	PM	0.01	0.01
		PM ₁₀	0.01	0.01
MO4CASPAF	Unit 4 Coal Active Storage Pile A Fugitives (4)	PM	0.15	0.65
		PM ₁₀	0.03	0.13
MO4CASPBF	Unit 4 Coal Active Storage Pile B Fugitives (4)	PM	0.15	0.65
		PM ₁₀	0.03	0.13
MO4CASPRF	Unit 4 Coal Active Storage Pile Reclaim Fugitives (4)	PM	0.01	0.01
		PM ₁₀	0.01	0.01

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			lb/hr	TPY*
MO4CCTDCV	Unit 4 Coal Crusher Tower Dust Collection Vent	PM	0.03	0.05
		PM ₁₀	0.01	0.01
MO4CESPF	Unit 4 Coal Emergency Storage Pile Fugitives (4)	PM	0.05	0.20
		PM ₁₀	0.01	0.04
MO4CDC1V	Unit 4 Coal Dust Collector 1 Vent	PM	0.01	0.01
		PM ₁₀	0.01	
MO4CDC2V	Unit 4 Coal Dust Collector 2 Vent	PM	0.01	0.01
		PM ₁₀	0.01	
MO4CISPF	Unit 4 Coal Inactive Storage Pile Fugitives (4)	PM	1.29	5.67
		PM ₁₀	0.25	1.08
MO4LSSAV	Unit 4 Lime Storage Silo A Vent	PM	0.05	0.03
		PM ₁₀	0.03	0.02
MO4LSSBV	Unit 4 Lime Storage Silo B Vent	PM	0.05	0.03
		PM ₁₀	0.03	0.02
MO4FAFSVA	Unit 4 Fly Ash Filter/Separators Vent A	PM	0.11	0.46
		PM ₁₀	0.04	0.16
MO4FAFSVB	Unit 4 Fly Ash Filter/Separators Vent B	PM	0.11	0.46
		PM ₁₀	0.04	0.16
MO4FASSV	Unit 4 Fly Ash Storage Silo Vent	PM	0.21	0.46
		PM ₁₀	0.08	0.16
MO4FASSWUF	Unit 4 Fly Ash Storage Silo Wet Unloading Fugitives (4)	PM	0.03	0.03
		PM ₁₀	0.02	0.02
MO4SSSV	Unit 4 Sorbent Storage Silo Vent	PM	0.19	0.01

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			lb/hr	TPY*
		PM ₁₀	0.07	0.01
MODEG4STV	Diesel Emergency Generator 4 Storage Tank Vent (2,000 gallons)	VOC	0.06	0.01
MODFWP4STV	Diesel Fire Water Pump 4 Storage Tank Vent (350 gallons)	VOC	0.01	0.01
MO4FOSTV	Unit 4 Fuel Oil Storage Tank Vent (300,000 gallons)	VOC	0.37	0.16
MO4CT1V	Unit 4 Cooling Tower 1	PM	8.72	38.2
		PM ₁₀	1.46	6.38
MO4CT2V	Unit 4 Cooling Tower 2	PM	8.72	38.2
		PM ₁₀	1.46	6.38
MO4AMMPF	Unit 4 Ammonia Piping Fugitives (4)	NH ₃	0.04	0.19

(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

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 PM greater than 10 microns is emitted.

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

NH₃ - ammonia

CO - carbon monoxide

H₂SO₄ - sulfuric acid mist

Pb - lead

HCl - hydrogen chloride

HF - hydrogen fluoride

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Hg - mercury

- (4) Fugitives emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) The PM emission rate is for front-half only, excluding back-half condensibles.
- (6) The PM emission rate is for front and back-half condensibles, for the concentration of PM₁₀.

* 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 24 Days/week 7 Weeks/year 52 or Hrs/yr 8,760