

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 78763 and PSD-TX-1068

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*
VA-B4S	Unit 4 Pulverized Coal Boiler Stack (8,647 MMBtu/hr)	NO _x (one-hr)	1,730	1,893.7
		NO _x (30-day)	605.3	--
		SO ₂ (one-hr)	3,115	3,787.4
		SO ₂ (three-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 ₄ 124	140.13	
		H ₂ SO ₄ (24-hr)	99	--
		NH ₃ 59.2	77.8	
		HF 143.2	28.03	
		HCl 520.4	56.81	
		Pb 0.58	0.44	
		Hg 0.99	0.08	
VA-AB3S	Auxiliary Boiler 3 Stack (250 MMBtu/hr)	NO _x	9.0	3.94
		SO ₂	0.56	0.25
		CO	18.75	8.21
		PM/PM ₁₀	1.86	0.82
		VOC	1.35	0.59
VA-DEG2S	Diesel Emergency Generator 2 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

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			lb/hr	TPY*
VA-DFWPS	Diesel Fire Water Pump 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
VA4CTHF	Coal Transfer Hopper Fugitives (4)	PM	0.84	0.65
		PM ₁₀	0.12	
VA4CTHBFF	Coal Transfer Hopper Belt Feeders Fugitives (4)	PM	0.01	0.02
		PM ₁₀	0.01	0.01
VA4CLW1F	Coal Lowering Well 1 Fugitives (4)	PM	0.01	0.01
		PM ₁₀	0.01	
VA4CLW2F	Coal Lowering Well 2 Fugitives (4)	PM	0.01	0.01
		PM ₁₀	0.01	
VA4CASPAF	Coal Active Storage Pile A Fugitives (4)	PM	0.15	0.65
		PM ₁₀	0.03	0.12
VA4CASPBF	Coal Active Storage Pile B Fugitives (4)	PM	0.15	0.65
		PM ₁₀	0.03	0.12
VA4CASPRF	Coal Active Storage Pile Reclaim Fugitives (4)	PM	0.01	0.01
		PM ₁₀	0.01	0.01
VA4CTTAF	Coal Transfer Tower A Fugitives (4)	PM	0.01	0.01
		PM ₁₀	0.01	
VA4CCTDCV	Coal Crusher Tower Dust Collection Vent	PM	0.03	0.05
		PM ₁₀	0.01	0.01
VA4CESPF	Coal Emergency Storage Pile Fugitives (4)	PM	0.05	0.20
		PM ₁₀	0.01	0.04

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			<u>lb/hr</u>	<u>TPY*</u>
VA4CDC1V	Coal Dust Collector 1 Vent	PM	0.01	0.01
		PM ₁₀	0.01	
VA4CDC2V	Coal Dust Collector 2 Vent	PM	0.01	0.01
		PM ₁₀	0.01	
VA4CISPF	Coal Inactive Storage Pile Fugitives (4)	PM	1.26	5.52
		PM ₁₀	0.24	1.05
VA4LSSAV	Unit 4 Lime Storage Silo A Vent	PM	0.04	0.03
		PM ₁₀	0.02	
VA4LSSBV	Unit 4 Lime Storage Silo B Vent	PM	0.04	0.03
		PM ₁₀	0.02	
VA4FAFSVA	Unit 4 Fly Ash Filter/Separators Vent A	PM	0.21	0.91
		PM ₁₀	0.07	0.32
VA4FAFSVB	Unit 4 Fly Ash Filter/Separators Vent B	PM	0.21	0.91
		PM ₁₀	0.07	0.32
VA4FASSV	Unit 4 Fly Ash Storage Silo Vent	PM	0.21	0.91
		PM ₁₀	0.07	0.32
VA4FASSWUF	Unit 4 Fly Ash Storage Silo Wet Unloading Fugitives (4)	PM	0.04	0.07
		PM ₁₀	0.01	0.01
VALFF	Landfill Fugitives (4)	PM	0.18	0.79
		PM ₁₀	0.09	0.39
VA4SSSV	Unit 4 Sorbent Storage Silo Vent	PM	0.19	0.01
		PM ₁₀	0.07	0.01
VADEG2STV	Diesel Emergency Generator 2 Storage Tank Vent (2,000 gallons)	VOC	0.06	0.01

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VADFWPSTV	Diesel Fire Water Pump Storage Tank Vent (350 gallons)	VOC	0.01	0.01
VACT1V	Cooling Tower 1	PM	8.72	38.2
		PM ₁₀	1.3	5.69
VACT2V	Cooling Tower 2	PM	8.72	38.2
		PM ₁₀	1.3	5.69
VAAMMPF	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

Hg - mercury

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- (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