

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 78762 and PSD-TX-1067

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*
TH-B3S	Unit 3 Pulverized Coal Boiler Stack (8,647 MMBtu/hr)	NO <sub>x</sub> (one-hr)	1,730	1,893.7
		NO <sub>x</sub> (30-day)	605.3	--
		SO <sub>2</sub> (one-hr)	3,115	3,787.4
		SO <sub>2</sub> (three-hr)	2,594	--
		SO <sub>2</sub> (30-day)	1,038	--
		PM/PM <sub>10</sub> (5)	129.7	568.1
		PM/PM <sub>10</sub> (6)	345.9	1,514.9
		CO (1-hr)	3,458.8	5,681
		VOC	46.7	136.4
		H <sub>2</sub> SO <sub>4</sub> 124	140.13	
		H <sub>2</sub> SO <sub>4</sub> (24-hr)	99	--
		NH <sub>3</sub> 59.2	77.8	
		HF 143.2	28.03	
		HCl 520.4	56.81	
		Pb 0.58	0.44	
		Hg 0.99	0.08	
TH-B4S	Unit 4 Pulverized Coal Boiler Stack (8,647 MMBtu/hr)	NO <sub>x</sub> (one-hr)	1,730	1,893.7
		NO <sub>x</sub> (30-day)	605.3	--
		SO <sub>2</sub> (one-hr)	3,115	3,787.4
		SO <sub>2</sub> (three-hr)	2,594	--
		SO <sub>2</sub> (30-day)	1,038	--
		PM/PM <sub>10</sub> (5)	129.7	568.1
		PM/PM <sub>10</sub> (6)	345.9	1,514.9
		CO (one-hr)	3,458.8	5,681
		VOC	46.7	136.4
		H <sub>2</sub> SO <sub>4</sub> 124	140.13	
		H <sub>2</sub> SO <sub>4</sub> (24-hr)	99	--
		NH <sub>3</sub> 59.2	77.8	

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			lb/hr	TPY*
		HF	143.2	28.03
		HCl	520.4	56.81
		Pb	0.58	0.44
		Hg	0.99	0.08
TH-AB4S	Auxiliary Boiler 4 Stack (250 MMBtu/hr)	NO <sub>x</sub>	9.0	3.94
		SO <sub>2</sub>	0.56	0.25
		CO	18.75	8.21
		PM/PM <sub>10</sub>	1.86	0.82
		VOC	1.35	0.59
TH-DEG3S	Diesel Emergency Generator 3 Stack	NO <sub>x</sub>	105.00	45.99
		SO <sub>2</sub>	1.77	0.78
		CO	24.06	10.54
		PM/PM <sub>10</sub>	3.06	1.34
		VOC	2.81	1.23
TH-DEG4S	Diesel Emergency Generator 4 Stack	NO <sub>x</sub>	105.00	45.99
		SO <sub>2</sub>	1.77	0.78
		CO	24.06	10.54
		PM/PM <sub>10</sub>	3.06	1.34
		VOC	2.81	1.23
TH-DFWPS	Diesel Fire Water Pump Stack	NO <sub>x</sub>	13.95	6.11
		CO	3.01	1.32
		SO <sub>2</sub>	0.18	0.08
		PM/PM <sub>10</sub>	0.99	0.43
		VOC	1.11	0.49
TH34CTHF	Coal Transfer Hopper Fugitives (4)	PM	0.84	1.29
		PM <sub>10</sub>	0.16	0.25
TH34CTHBFF	Coal Transfer Hopper Belt	PM	0.01	0.03

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			lb/hr	TPY*
	Feeders Fugitives (4)	PM <sub>10</sub>	0.01	0.01
TH34CLW1F	Coal Lowering Well 1 Fugitives (4)	PM	0.01	0.02
		PM <sub>10</sub>	0.01	
TH34CLW2F	Coal Lowering Well 2 Fugitives (4)	PM	0.01	0.02
		PM <sub>10</sub>	0.01	
TH34CASPAF	Coal Active Storage Pile A	PM	0.15	0.65
	Fugitives (4)	PM <sub>10</sub>	0.03	0.12
TH34CASPBF	Coal Active Storage Pile B	PM	0.15	0.65
	Fugitives (4)	PM <sub>10</sub>	0.03	0.12
TH34CASPRF	Coal Active Storage Pile	PM	0.01	0.02
	Reclaim Fugitives (4)	PM <sub>10</sub>	0.01	0.01
TH34CCTDCV	Coal Crusher Tower	PM	0.06	0.10
	Dust Collection Vent	PM <sub>10</sub>	0.012	0.02
TH34CESPF	Coal Emergency Storage Pile	PM	0.05	0.20
	Fugitives (4)	PM <sub>10</sub>	0.01	0.04
TH3CDC1V	Unit 3 Coal Dust Collector 1 Vent	PM	0.01	0.01
		PM <sub>10</sub>	0.01	
TH3CDC2V	Unit 3 Coal Dust Collector 2 Vent	PM	0.01	0.01
		PM <sub>10</sub>	0.01	
TH4CDC1V	Unit 4 Coal Dust Collector 1 Vent	PM	0.01	0.01
		PM <sub>10</sub>	0.01	
TH4CDC2V	Unit 4 Coal Dust Collector 2 Vent	PM	0.01	0.01
		PM <sub>10</sub>	0.01	
TH34CISP1F	Coal Inactive Storage Pile 1	PM	1.72	7.53

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			lb/hr	TPY*
	Fugitives (4)	PM <sub>10</sub>	0.33	1.43
TH34CISP2F	Coal Inactive Storage Pile 2	PM	1.24	5.43
	Fugitives (4)	PM <sub>10</sub>	0.24	1.03
TH3LSSAV	Unit 3 Lime Storage Silo A Vent	PM	0.04	0.03
		PM <sub>10</sub>	0.02	
TH3LSSBV	Unit 3 Lime Storage Silo B Vent	PM	0.04	0.03
		PM <sub>10</sub>	0.02	
TH4LSSAV	Unit 4 Lime Storage Silo A Vent	PM	0.04	0.03
		PM <sub>10</sub>	0.02	
TH4LSSBV	Unit 4 Lime Storage Silo B Vent	PM	0.04	0.03
		PM <sub>10</sub>	0.02	
TH3FAFSVA	Unit 3 Fly Ash Filter/Separators Vent A	PM	0.21	0.91
		PM <sub>10</sub>	0.07	0.32
TH3FAFSVB	Unit 3 Fly Ash Filter/Separators Vent B	PM	0.21	0.91
		PM <sub>10</sub>	0.07	0.32
TH3FASSV	Unit 3 Fly Ash Storage Silo Vent	PM	0.21	0.91
		PM <sub>10</sub>	0.07	0.32
TH3FASSWUF	Unit 3 Fly Ash Storage Silo Wet Unloading Fugitives (4)	PM	0.05	0.07
		PM <sub>10</sub>	0.01	0.01
TH4FAFSVA	Unit 4 Fly Ash Filter/Separators Vent A	PM	0.21	0.91
		PM <sub>10</sub>	0.07	0.32
TH4FAFSVB	Unit 4 Fly Ash Filter/Separators Vent B	PM	0.21	0.91
		PM <sub>10</sub>	0.07	0.32

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA	
			<u>Emission Rates **</u>	
			<u>lb/hr</u>	<u>TPY*</u>
TH4FASSV	Unit 4 Fly Ash Storage Silo Vent	PM	0.21	0.91
		PM <sub>10</sub>	0.07	0.32
TH4FASSWUF	Unit 4 Fly Ash Storage Silo Wet Unloading Fugitives (4)	PM	0.05	0.07
		PM <sub>10</sub>	0.01	0.01
THLFF	Landfill Fugitives (4)	PM	0.28	1.21
		PM <sub>10</sub>	0.14	0.60
TH3SSSV	Unit 3 Sorbent Storage Silo Vent	PM	0.19	0.01
		PM <sub>10</sub>	0.07	0.01
TH4SSSV	Unit 4 Sorbent Storage Silo Vent	PM	0.19	0.01
		PM <sub>10</sub>	0.07	0.01
THDEG3STV	Diesel Emergency Generator 3 Storage Tank Vent (2,000 gallons)	VOC	0.06	0.01
THDEG4STV	Diesel Emergency Generator 4 Storage Tank Vent (2,000 gallons)	VOC	0.06	0.01
THDFWPSTV	Diesel Fire Water Pump Storage Tank Vent (350 gallons)	VOC	0.01	0.01
THCT1V	Cooling Tower 1	PM	8.72	38.2
		PM <sub>10</sub>	1.30	5.69
THCT2V	Cooling Tower 2	PM	8.72	38.2
		PM <sub>10</sub>	1.30	5.69
THCT3V	Cooling Tower 3	PM	8.72	38.2
		PM <sub>10</sub>	1.30	5.69

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates **	
			lb/hr	TPY*
THCT4V	Cooling Tower 4	PM 8.72	38.2	
		PM <sub>10</sub>	1.30	5.69
THAMMPF	Ammonia Piping Fugitives (4)	NH <sub>3</sub>	0.09	0.38

- (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 PM<sub>10</sub>.  
 PM<sub>10</sub> - 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<sub>x</sub> - total oxides of nitrogen  
 SO<sub>2</sub> - sulfur dioxide  
 NH<sub>3</sub> - ammonia  
 CO - carbon monoxide  
 H<sub>2</sub>SO<sub>4</sub> - sulfuric acid mist  
 Pb - lead  
 HCl - hydrogen chloride  
 HF - hydrogen fluoride  
 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 PM<sub>10</sub>.

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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

\*\* 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