EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 70492 and PSD-TX-1037

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*
U-6	Spruce Power Generating Unit No. 2 (8,000 MMBtu/Hr)	NO_x	1,600	1,752
		SO_2	2,880	2,102
		CO	4,480	5,256
		VOC	29	88
		H_2SO_4 44	129	
		NH_3 50	66	
		HF 60	26	
		HCl 480	66	
		Pb 0.2	0.3	
		Hg 0.43	0.07	
		PM/PM_{10} (6)	264	771
		PM/PM_{10} (7)	---	525.6
U-6, U-5, E-3, E-1, and E-2	Emissions Cap for Spruce Unit 1 and 2, Deely Units 1 and 2, and Sommers 1 and 2 (5)	NO_x 10,454	NO_x	---
U-6 and U-5	Emissions Cap for Spruce Unit 1 and 2 (5)	SO_2	---	4,319
EMGEN-1	Emergency Generator 1	NO_x	38.6	1.2
		SO_2	1.3	0.04
		PM/PM_{10}	1.1	0.03
		CO	8.9	0.3
		VOC	1.1	0.03
EMGEN-2	Emergency Generator 2	NO_x	38.6	1.2
		SO_2	1.3	0.04
		PM/PM_{10}	1.1	0.03
		CO	8.9	0.3

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates ** lb/hr	TPY*
		VOC	1.1	0.03
T-ACID	Sulfuric Acid Storage Tank	H_2SO_4	<0.01	<0.01
T-BASE	Base Storage Tank	Bases	<0.01	<0.01
F-NH_3	Aqueous Ammonia Fugitives	NH_3	0.47	2.1
FAS3	Fly Ash Silos for Spruce Unit 1	PM	0.527	0.247
		PM_{10}	0.178	0.083
		Pb	1.1E-04	3.5E-05
		Hg	4.5E-06	5.9E-07
FAS4	Fly Ash Silos for Spruce Unit 2	PM	0.689	0.322
		PM_{10}	0.235	0.110
		Pb	1.4E-04	4.5E-05
		Hg	5.9E-06	7.7E-07
EAS4	Economizer Ash Silos for Spruce Unit 2	PM	0.160	0.103
		PM_{10}	0.100	0.156
		Pb	2.1E-05	2.3E-05
		Hg	8.8E-07	3.8E-07
FAD3	Spruce Unit 1 Fly Ash Loadout to Trucks	PM	0.31	0.21
		PM_{10}	0.075	0.05
		Pb	2.6E-06	3.0E-05
		Hg	2.6E-06	5.0E-07
FAD4	Spruce Unit 2 Fly Ash Loadout to Trucks	PM	0.31	0.29
		PM_{10}	0.08	0.10
		Pb	6.2E-05	4.0E-05
		Hg	2.6E-06	6.8E-07
EAD4	Spruce Unit 2 Economizer Ash Loadout to Trucks	PM	0.0004	0.01
		PM_{10}	0.01	0.0004

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates ** lb/hr	TPY*
		Pb	1.1E-06	5.7E-08
		Hg	4.5E-08	9.7E-10
F-FILL	Sludge and Ash Landfill Fugitives	PM	1.53	6.8
		PM_{10}	0.76	3.38
		Pb	1.2E-05	5.4E-05
		Hg	2.1E-07	9.2E-07
F-LS	Limestone Receiving and Handling Fugitives	PM	0.004	0.0006
		PM_{10}	0.002	0.0003
A-L55	Limestone Storage Pile	PM	0.08	0.35
		PM_{10}	0.04	0.18
LDC-12	Limestone Receiving Baghouse	PM	1.2E-02	1.7E-03
		PM_{10}	5.6E-03	8.2E-04
LDC-10	Limestone Silos	PM	1.2E-02	1.7E-03
		PM_{10}	5.6E-03	8.1E-04
F-CCS	Coal Storage Fugitives	PM	9.08	39.7
		PM_{10}	1.88	8.2
PX-CO1A/B	Railcar No. 1 Unloading and Transfer Baghouse	PM	0.01	0.02
		PM_{10}	0.01	0.02
PX-CO2	Railcar No. 1 Unloading Fugitives	PM	0.25	0.53
		PM_{10}	0.05	0.11
DC-15	Railcar No. 2 Unloading and Transfer Baghouse	PM	0.01	0.02
		PM_{10}	0.01	0.02
PX-CO3	Railcar No. 2 Unloading Fugitives	PM	0.25	0.53
		PM_{10}	0.05	0.11
PX-CO4	Rotary Plow Reclaim	PM	0.24	0.05
		PM_{10}	0.05	0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates ** lb/hr	TPY*
PX-C16	Stacker/Reclaim - Stackout	PM	0.47	0.10
		PM_{10}	0.10	0.021
PX-C17	Stacker/Reclaim - Reclaim	PM	0.807	0.303
		PM_{10}	0.17	0.06
F-Area1	Coal Conveyor Fugitives - Coal Yard Area	PM	0.96	1.23
		PM_{10}	0.20	0.25
F-Area2	Coal Conveyor Fugitives - Transfer Area	PM	0.11	0.11
		PM_{10}	0.02	0.02
F-Area3	Coal Conveyor Fugitives - J. K. Spruce Power Island	PM	0.19	0.17
		PM_{10}	0.04	0.04
DC-1	Transfer Building 1	PM	0.016	0.034
		PM_{10}	0.003	0.007
DC-2	South Reclaim Hopper to Convey or 4		PM	0.090
	0.134			
		PM_{10}	0.019	0.028
DC-3	Transfer Building 1a	PM	0.02	0.04
		PM_{10}	0.004	0.008
DC-CCG016	Crusher Building 1	PM	0.20	0.75
		PM_{10}	0.041	0.155
DC-4A	Silo Group A Headhouse	PM	0.024	0.04
		PM_{10}	0.005	0.008
DC-4B	Silo Group A Unloading	PM	0.008	0.013
		PM_{10}	0.002	0.003
DC-5	Crusher Building 2	PM	0.30	0.75

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates ** lb/hr	TPY*
		PM_{10}	0.062	0.155
DC-6	North Reclaim Hopper to Conveyor 23B	PM	0.09	0.134
		PM_{10}	0.019	0.028
DC-7	Transfer Building 4	PM	0.007	0.017
		PM_{10}	0.001	0.003
DC-9	Transfer Building 6	PM	0.007	0.005
		PM_{10}	0.001	0.001
DC-10	Transfer Building 7	PM	0.007	0.002
		PM_{10}	0.001	0.001
DC-11	Silo Group B Headhouse	PM	0.016	0.027
		PM_{10}	0.003	0.006
DC-12	Silo Group B Loadout	PM	0.008	0.013
		PM_{10}	0.002	0.003
DC-13	Transfer Building 9	PM	0.008	0.013
		PM_{10}	0.002	0.003
DC-14	Transfer Building 1B	PM	0.008	0.013
		PM_{10}	0.002	0.003
DC-101	Unit 1 Transfer Building 5 and Tripper Deck	PM	0.013	0.006
		PM_{10}	0.003	0.001
DC-201	Unit 2 Transfer Building 8 and Tripper Deck	PM	0.013	0.005
		PM_{10}	0.003	0.001
T3	Emergency Generator No. 1 Fuel Tanks	VOC	2.3	5.82
T4	Emergency Generator No. 2 Fuel Tanks	VOC	2.3	5.82

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(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_{10}.
PM_{10} - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
NH_3 - ammonia
CO - carbon monoxide
H_2SO_4 - sulfuric acid mist
Pb - lead
HCl - hydrogen chloride
HF - hydrogen fluoride
Hg - mercury
(4) Fugitive emissions are an estimate only.
(5) The cap becomes effective upon start-up of Spruce 2 Utility Boiler.
(6) The PM emission rate is for front and back-half condensibles, for the concentration of PM_{10}.
(7) The PM emission rate is for front-half only, excluding back-half condensibles.

* 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

Dated December 28, 2005