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	---
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	14.1	0.4
		SO_2	1.1	0.03
		PM/PM_{10}	0.04	0.01
		CO	7.7	0.2
		VOC	0.9	0.03
EMGEN-2	Emergency Generator 2	NO_x	17.6	0.5
		SO_2	1.4	0.04
		PM/PM_{10}	0.6	0.02
		CO	9.6	0.3
		VOC	1.2	0.04

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY* *
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 (4)	NH_3	0.70	3.09
FAS3	Fly Ash Silos for Spruce Unit 1	PM	0.56	0.26
		PM_{10}	0.19	0.09
		Pb	0.01	0.01
		Hg	0.01	0.01
FAS4	Fly Ash Silos for Spruce Unit 2	PM	0.72	0.35
		PM_{10}	0.24	0.12
		Pb	0.01	0.01
		Hg	0.01	0.01
EAS4	Economizer Ash Silos for Spruce Unit 2	PM	0.16	0.11
		PM_{10}	0.10	0.16
		Pb	0.01	0.01
		Hg	0.01	0.01
FAD3	Spruce Unit 1 Fly Ash Loadout to Trucks	PM	0.46	0.21
		PM_{10}	0.11	0.05
		Pb	0.01	0.01
		Hg	0.01	0.01
FAD4	Spruce Unit 2 Fly Ash Loadout to Trucks	PM	0.46	0.29
		PM_{10}	0.11	0.10
		Pb	0.01	0.01
		Hg	0.01	0.01
EAD4	Spruce Unit 2 Economizer Ash Loadout to Trucks	PM	0.01	0.01
		PM_{10}	0.01	0.01
		Pb	0.01	0.01
		Hg	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY* *
F-FILL	Sludge and Ash Landfill Fugitives (4)	PM	1.51	6.66
		PM_{10}	0.72	3.15
		Pb	0.01	0.01
		Hg	0.01	0.01
F-BA-PILE	Bottom Ash Storage Pile Fugitives (4)	PM	0.15	0.65
		PM_{10}	0.07	0.31
F-GYP	Gypsum Storage Pile Fugitives (4)	PM	0.07	0.30
		PM_{10}	0.03	0.17
F-LS	Limestone Receiving and Handling Fugitives (4)	PM	0.01	0.01
		PM_{10}	0.01	0.01
A-L55	Limestone Storage Pile (4)	PM	0.08	0.35
		PM_{10}	0.04	0.18
LDC-12	Limestone Receiving Baghouse	PM	0.01	0.01
		PM_{10}	0.01	0.01
LDC-13	Limestone Receiving Baghouse	PM	0.01	0.01
		PM_{10}	0.01	0.01
LDC-10	Limestone Silos	PM	0.01	0.01
		PM_{10}	0.01	0.01
F-CCS	Coal Storage Fugitives (4)	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 (4)	PM	0.26	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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY* *
PX-CO3	Railcar No. 2 Unloading Fugitives (4)	PM	0.26	0.53
		PM_{10}	0.05	0.11
PX-CO4	Rotary Plow Reclaim	PM	0.35	0.43
		PM_{10}	0.07	0.09
PX-C16	Stacker/Reclaim - Stackout	PM	0.86	0.72
		PM_{10}	0.18	0.15
PX-C17	Stacker/Reclaim - Reclaim	PM	1.39	---
		PM_{10}	0.29	---
PX-C17	Stacker/Reclaim - Bypass	PM	0.70	---
		PM_{10}	0.14	---
PX-C17	Stacker/Reclaim	PM	---	1.20
		PM_{10}	---	0.25
F-Area1	Coal Conveyor Fugitives - Coal Yard Area (4)	PM	1.44	1.41
		PM_{10}	0.30	0.29
F-Area2	Coal Conveyor Fugitives - Transfer Area (4)	PM	0.43	0.47
		PM_{10}	0.09	0.10
F-Area3	Coal Conveyor Fugitives - J. K. Spruce Power Island (4)	PM	0.25	0.17
		PM_{10}	0.05	0.03
DC-1	Transfer Building 1	PM	0.03	0.04
		PM_{10}	0.01	0.01
DC-2	South Reclaim Hopper to Convey or 4	PM	0.15	0.12
		PM_{10}	0.03	0.02
DC-3	Transfer Building 1a	PM	0.05	0.06
		PM_{10}	0.01	0.01
DC-CCG016	Crusher Building 1	PM	0.30	0.60

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY* *
		PM_{10}	0.06	0.12
DC-4A	Silo Group A Headhouse	PM	0.03	0.03
		PM_{10}	0.01	0.01
DC-4B	Silo Group A Unloading	PM	0.01	0.01
		PM_{10}	0.01	0.01
DC-5	Crusher Building 2	PM	0.30	0.60
		PM_{10}	0.06	0.12
DC-6	North Reclaim Hopper to Conveyor 23B	PM	0.15	0.12
		PM_{10}	0.03	0.02
DC-7	Transfer Building 4	PM	0.01	0.01
		PM_{10}	0.01	0.01
DC-14	Transfer Building 1B	PM	0.01	0.01
		PM_{10}	0.01	0.01
DC-101	Unit 1 Transfer Building 5 and	PM	0.02	0.01
		PM_{10}	0.01	0.01
DC-201	Unit 2 Transfer Building 6 and Tripper Deck	PM	0.02	0.01
		PM_{10}	0.01	0.01
DC-8	Transfer Building 3	PM	0.01	0.01
		PM_{10}	0.01	0.01
T3	Emergency Generator No. 1 Fuel Tanks	VOC	0.14	0.01
T4	Emergency Generator No. 2 Fuel Tanks	VOC	0.14	0.01

(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.

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY* *

(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.

* 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

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

Dated November 1, 2007