

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 <sub>x</sub>	1600	1752
		SO <sub>2</sub>	2880	2102
		PM/PM <sub>10</sub>	264	771
		CO	4480	5256
		VOC	29	88
		H <sub>2</sub> SO <sub>4</sub>	44	129
		NH <sub>3</sub>	50	66
		HF	60	26
		HCl	480	66
		Pb	0.2	0.3
		Hg	0.43	0.07
U-6, U-5, E-3, E-1, E-2	Emissions Cap for Spruce Unit 1 & 2, Deely Units 1 & 2, and Sommers 1 & 2 (5)	NO <sub>x</sub>	---	10454
U-6, U-5	Emissions Cap for Spruce Unit 1 & 2 (5)	SO <sub>2</sub>	---	4319
EMGEN-1	Emergency Generator 1	NO <sub>x</sub>	38.6	1.2
		SO <sub>2</sub>	1.3	0.04
		PM/PM <sub>10</sub>	1.1	0.03
		CO	8.9	0.3
		VOC	1.1	0.03
EMGEN-2	Emergency Generator 2	NO <sub>x</sub>	38.6	1.2
		SO <sub>2</sub>	1.3	0.04
		PM/PM <sub>10</sub>	1.1	0.03
		CO	8.9	0.3
		VOC	1.1	0.03

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			lb/hr	TPY*
T-ACID	Sulfuric Acid Storage Tank	H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
T-BASE	Base Storage Tank	Bases	<0.01	<0.01
F-NH <sub>3</sub>	Aqueous Ammonia Fugitives	NH <sub>3</sub>	0.47	2.1
FAS3	Fly Ash Silos for Spruce Unit 1	PM	0.527	0.247
		PM <sub>10</sub>	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 <sub>10</sub>	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	0.103	0.160
		PM <sub>10</sub>	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 <sub>10</sub>	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 <sub>10</sub>	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	0.01	0.0004
		PM <sub>10</sub>	0.01	0.0004
		Pb	1.1E-06	5.7E-08
		Hg	4.5E-08	9.7E-10

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			lb/hr	TPY*
F-FILL	Sludge and Ash Landfill Fugitives	PM	1.53	6.8
		PM <sub>10</sub>	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 <sub>10</sub>	0.002	0.0003
A-L55	Limestone Storage Pile	PM	0.08	0.35
		PM <sub>10</sub>	0.04	0.18
LDC-12	Limestone Receiving Baghouse	PM	1.2E-02	1.7E-03
		PM <sub>10</sub>	5.6E-03	8.2E-04
LDC-10	Limestone Silos	PM	1.2E-02	1.7E-03
		PM <sub>10</sub>	5.6E-03	8.1E-04
F-CCS	Coal Storage Fugitives	PM	9.08	39.7
		PM <sub>10</sub>	1.88	8.2
PX-CO1A/B	Railcar No.1 Unloading and Transfer Baghouse	PM	0.01	0.02
		PM <sub>10</sub>	0.01	0.02
PX-CO2	Railcar No.1 Unloading Fugitives	PM	0.25	0.53
		PM <sub>10</sub>	0.05	0.11
DC-15	Railcar No.2 Unloading and Transfer Baghouse	PM	0.01	0.02
		PM <sub>10</sub>	0.01	0.02
PX-CO3	Railcar No.2 Unloading Fugitives	PM	0.25	0.53
		PM <sub>10</sub>	0.05	0.11
PX-CO4	Rotary Plow Reclaim	PM	0.24	0.05
		PM <sub>10</sub>	0.05	0.01

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			lb/hr	TPY*
PX-C16	Stacker/Reclaim - Stackout	PM	0.47	0.10
		PM <sub>10</sub>	0.10	0.021
PX-C17	Stacker/Reclaim - Reclaim	PM	0.807	0.303
		PM <sub>10</sub>	0.17	0.06
F-Area1	Coal Conveyor Fugitives - Coal Yard Area	PM	0.96	1.23
		PM <sub>10</sub>	0.20	0.25
F-Area2	Coal Conveyor Fugitives - Transfer Area	PM	0.11	0.11
		PM <sub>10</sub>	0.02	0.02
F-Area3	Coal Conveyor Fugitives - J.K. Spruce Power Island	PM	0.19	0.17
		PM <sub>10</sub>	0.04	0.04
DC-1	Transfer Building 1	PM	0.016	0.034
		PM <sub>10</sub>	0.003	0.007
DC-2	South Reclaim Hopper to Conveyor 4	PM	0.090	0.134
		PM <sub>10</sub>	0.019	0.028
DC-3	Transfer Building 1a	PM	0.02	0.04
		PM <sub>10</sub>	0.004	0.008
DC-CCG016	Crusher Building 1	PM	0.20	0.75
		PM <sub>10</sub>	0.041	0.155
DC-4A	Silo Group A Headhouse	PM	0.024	0.04
		PM <sub>10</sub>	0.005	0.008
DC-4B	Silo Group A Unloading	PM	0.008	0.013
		PM <sub>10</sub>	0.002	0.003
DC-5	Crusher Building 2	PM	0.30	0.75
		PM <sub>10</sub>	0.062	0.155

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates **	
			lb/hr	TPY*
DC-6	North Reclaim Hopper to Conveyor 23B	PM	0.09	0.134
		PM <sub>10</sub>	0.019	0.028
DC-7	Transfer Building 4	PM	0.007	0.017
		PM <sub>10</sub>	0.001	0.003
DC-9	Transfer Building 6	PM	0.007	0.005
		PM <sub>10</sub>	0.001	0.001
DC-10	Transfer Building 7	PM	0.007	0.002
		PM <sub>10</sub>	0.001	0.001
DC-11	Silo Group B Headhouse	PM	0.016	0.027
		PM <sub>10</sub>	0.003	0.006
DC-12	Silo Group B Loadout	PM	0.008	0.013
		PM <sub>10</sub>	0.002	0.003
DC-13	Transfer Building 9	PM	0.008	0.013
		PM <sub>10</sub>	0.002	0.003
DC-14	Transfer Building 1B	PM	0.008	0.013
		PM <sub>10</sub>	0.002	0.003
DC-101	Unit 1 Transfer Building 5 and Tripper Deck	PM	0.013	0.006
		PM <sub>10</sub>	0.003	0.001
DC-201	Unit 2 Transfer Building 8 and Tripper Deck	PM	0.013	0.005
		PM <sub>10</sub>	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

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- (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 30 Texas Administrative Code Section 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 particulate matter 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) Fugitive emissions are an estimate only.
- (5) The cap becomes effective upon start-up of Spruce 2 Utility Boiler.

\* 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:

\* Emission rates are based on the following operating schedule:

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

Dated \_\_\_\_\_