

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 933 and PSD-TX-1084

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 *		
(5)			lb/hr (4)	TPY	
S-1	Steam Generator Unit No. 1	CO	9,174	40,183	
		NO <sub>x</sub>	5,118	16,813	
		PM (6)	853	3,736	
		SO <sub>2</sub>	10,236	44,834	
		VOC	473	207	
		Lead	2.2	1	
		HF	177	777	
		(Before start-up of SCR)	H <sub>2</sub> SO <sub>4</sub>	57	251
		(After start-up of SCR)	H <sub>2</sub> SO <sub>4</sub> (6)	232.3	741.6
		(After start-up of SCR)	NH <sub>3</sub>	72	126
S-2	Steam Generator Unit No. 2	CO	9,174	40,183	
		NO <sub>x</sub>	5,118	16,813	
		PM (6)	853	3,736	
		SO <sub>2</sub>	10,236	44,834	
		VOC	473	207	
		Lead	2.2	1	
		HF	177	777	
		(Before start-up of SCR)	H <sub>2</sub> SO <sub>4</sub>	57	251
		(After start-up of SCR)	H <sub>2</sub> SO <sub>4</sub> (6)	232.3	741.6
		(After start-up of SCR)	NH <sub>3</sub>	72	126

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr (4)	TPY (5)
S-3	Steam Generator Unit No. 3	CO	9,174	40,183
		NO <sub>x</sub>	5,118	16,813
		PM (6)	853	3,736
		SO <sub>2</sub>	10,236	44,834
		VOC	473	207
		Lead	2.2	1
		HF	177	777
		(Before start-up of SCR) H <sub>2</sub> SO <sub>4</sub>	57	251
		(After start-up of SCR) H <sub>2</sub> SO <sub>4</sub> (6)	232.3	741.6
		(After start-up of SCR) NH <sub>3</sub>	72	126
S1 A and B	Auxiliary Boiler A (250 MMBtu/hr)	CO	90.6	
		NO <sub>x</sub>	43.5	
		PM	3.6	
		SO <sub>2</sub>	142.2	
		VOC	3.6	
		Lead	0.01	
S1 A and B	Auxiliary Boiler B (250 MMBtu/hr)	CO	90.6	
		NO <sub>x</sub>	43.5	
		PM	3.6	
		SO <sub>2</sub>	142.2	
		VOC	3.6	
		Lead	0.01	
LMA1F	Limestone System - Transfer from Railcar to A Side Receiving Hopper	PM	0.02	0.01
		PM <sub>10</sub>	0.01	0.01
LMA2F	Limestone System - Transfer from Receiving Hopper A to Conveyor C-30	PM	0.02	0.01
		PM <sub>10</sub>		0.01
				0.01
LMA3F	Limestone System - Transfer from Conveyor C-30 to Conveyor C-4	PM	0.02	0.01
		PM <sub>10</sub>	0.01	0.01
LMA4F	Limestone System - Transfer from	PM	0.05	0.03

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			lb/hr (4)	TPY (5)
	Conveyor C-30 to Pile	PM <sub>10</sub>	0.02	0.01
LMA5WF/	Limestone System - Limestone Storage		PM	0.29
				1.28
LMA5MF	Pile A/Wind and Maintenance Fugitives	PM <sub>10</sub>	0.15	0.64
LMA6F	Limestone System - Underground Reclaim Transfer to Conveyor 2A	PM PM <sub>10</sub>	0.01 0.003	0.01 0.01
LMB1F	Limestone System - Transfer from Railcar B Side Receiving Hopper	PM PM <sub>10</sub>	0.02 0.01	0.01 0.01
LMB2F	Limestone System - Transfer from Receiving Hopper B to Conveyor C-1A	PM PM <sub>10</sub>	0.02 0.01	0.01 0.01
LMB3F	Limestone System - Tower No. 1 Transfers (C-1A and C-4) to Conveyor C-1B	PM PM <sub>10</sub>	0.02 0.01	0.01 0.01
LMB4F	Limestone System - Shuttle Conveyor C-1B to Conveyor C-1C	PM PM <sub>10</sub>	0.10 0.05	0.03 0.01
LMB5F	Limestone System - Conveyor C-1C Transfer to System B Storage Pile	PM PM <sub>10</sub>	0.50 0.24	0.13 0.06
LMB6F	Limestone System - Transfer from System B to Storage Pile to Conveyor C-2	PM PM <sub>10</sub>	0.08 0.04	0.13 0.06
LMB7F	Limestone System - Tower No. 2 Transfer from Conveyor C-2 to C-3	PM PM <sub>10</sub>	0.01 0.003	0.01 0.01
LMB8F	Limestone System - Conveyors C-3 and C-24 Transfers into	PM PM <sub>10</sub>	0.004 0.002	0.01 0.003

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr (4)	TPY (5)
Surge Bins				
LMB9F	Limestone System - Transfer from Ball Mill Surge Silos to Conveyors A, B, C, and D	PM	0.06	0.13
		PM <sub>10</sub>	0.03	0.06
LMB10F	Limestone System - Transfer from Conveyors A, B, C, and D into Ball Mills	PM	0.06	0.13
		PM <sub>10</sub>	0.03	0.06
ML1AMMPF	Unit 1 Ammonia Fugitives	NH <sub>3</sub>	0.067	0.30
ML2AMMPF	Unit 2 Ammonia Fugitives	NH <sub>3</sub>	0.067	0.30
ML3AMMPF	Unit 3 Ammonia Fugitives	NH <sub>3</sub>	0.067	0.30

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.

(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO<sub>x</sub> - total oxides of nitrogen, calculated as nitrogen dioxide

SO<sub>2</sub> - sulfur dioxide

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.

CO - carbon monoxide

HF - hydrogen fluoride

H<sub>2</sub>SO<sub>4</sub> - sulfuric acid

NH<sub>3</sub> - ammonia

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- (4) Compliance with NO<sub>x</sub>, PM, PM<sub>10</sub>, SO<sub>2</sub>, VOC, lead, HF, H<sub>2</sub>SO<sub>4</sub>, and NH<sub>3</sub> hourly emission limits is determined on a three-hour average basis. Compliance with the CO hourly emission limit is determined on a 30-day average basis.
  - (5) Compliance with annual emission limits is based on a calendar year. Only for purposes of demonstrating compliance for EPN S1A and B, total combined actual annual emissions from EPNs S1A and B, S-1, S-2, and S-3 shall not exceed the total allowable annual emission rates for EPNs S-1, S-2, and S-3.
  - (6) Emission limits apply to State and PSD Permit.
- \* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

\_\_\_\_\_ Hrs/day \_\_\_\_\_ Days/week \_\_\_\_\_ Weeks/year or 8,760 Hrs/year

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