

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 933

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, sources, and related activities. 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 (4)	
			lbs/hour (5)	TPY (6)
S-1	Steam Generator Unit No. 1 (Coal-Fired Steam Generator)	CO	9,174	40,183
		NO <sub>x</sub>	5,118	14,945
		PM	853	3,736
		PM <sub>10</sub>	853	3,736
		PM <sub>2.5</sub>	853	3,736
		PM (7)	2,940	--
		SO <sub>2</sub>	10,236	44,834
		VOC	473	207
		Pb	2.2	1
		Pb (7)	4.56	--
		HF	177	777
		H <sub>2</sub> SO <sub>4</sub>	57	251
		Hg	0.91	0.80
S-2	Steam Generator Unit No. 2 (Coal-Fired Steam Generator)	CO	9,174	40,183
		NO <sub>x</sub>	5,118	14,945
		PM	853	3,736
		PM <sub>10</sub>	853	3,736
		PM <sub>2.5</sub>	853	3,736
		PM (7)	2,940	--
		SO <sub>2</sub>	10,236	44,834
		VOC	473	207

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		Pb	2.2	1
		Pb (7)	4.56	--
		HF	177	777
		H <sub>2</sub> SO <sub>4</sub>	57	251
		Hg	0.91	0.80
S-3	Steam Generator Unit No. 3 (Coal-Fired Steam Generator)	CO	9,174	40,183
		NO <sub>x</sub>	5,118	14,945
		PM	853	3,736
		PM <sub>10</sub>	853	3,736
		PM <sub>2.5</sub>	853	3,736
		PM (7)	2,940	--
		SO <sub>2</sub>	10,236	44,834
		VOC	473	207
		Pb	2.2	1
		Pb (7)	4.56	--
		HF	177	777
		H <sub>2</sub> SO <sub>4</sub>	57	251
		Hg	0.91	0.80
S1-A and B	Auxiliary Boiler A (250 MMBtu/hr)	CO	90.6	--
		NO <sub>x</sub>	43.5	--
		PM	6.0	--
		PM <sub>10</sub>	6.0	--
		PM <sub>2.5</sub>	6.0	--
		SO <sub>2</sub>	128.7	--
		VOC	3.6	--

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		Pb	< 0.01	--
S1-A and B	Auxiliary Boiler B (250 MMBtu/hr)	CO	90.6	--
		NO <sub>x</sub>	43.5	--
		PM	6.0	--
		PM <sub>10</sub>	6.0	--
		PM <sub>2.5</sub>	6.0	--
		SO <sub>2</sub>	128.7	--
		VOC	3.6	--
		Pb	< 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
		PM <sub>2.5</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
		PM <sub>2.5</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
		PM <sub>2.5</sub>	< 0.01	< 0.01
LMA4F	Limestone System - Transfer From Conveyor C-30 to Pile	PM	0.05	0.03
		PM <sub>10</sub>	0.02	0.01
		PM <sub>2.5</sub>	< 0.01	< 0.01
LMA5WF and LMA5MF	Limestone System - Limestone Storage Pile A Wind and Maintenance Fugitives (8)	PM	0.29	1.28
		PM <sub>10</sub>	0.15	0.64
		PM <sub>2.5</sub>	0.02	0.09
LMA6F	Limestone System Underground Reclaim	PM	0.01	0.01

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		PM <sub>10</sub>	< 0.01	0.01
		PM <sub>2.5</sub>	< 0.01	< 0.01
LMB1F	Limestone System - Transfer From Railcar B Side Receiving Hopper	PM	0.02	0.01
		PM <sub>10</sub>	0.01	0.01
		PM <sub>2.5</sub>	< 0.01	< 0.01
LMB2F	Limestone System - Transfer From Receiving Hopper B to Conveyor C- 1A	PM	0.02	0.01
		PM <sub>10</sub>	0.01	0.01
		PM <sub>2.5</sub>	< 0.01	< 0.01
LMB3F	Limestone System – Tower No. 1 Transfers (C- 1A and C-4) to Conveyor C-1B	PM	0.02	0.01
		PM <sub>10</sub>	0.01	< 0.01
		PM <sub>2.5</sub>	< 0.01	< 0.01
LMB4F	Limestone System - Shuttle Conveyor C-1B to Conveyor C-1C	PM	0.10	0.03
		PM <sub>10</sub>	0.05	0.01
		PM <sub>2.5</sub>	0.01	< 0.01
LMB5F	Limestone System - Conveyor C-1C Transfer to System B Storage Pile	PM	0.50	0.13
		PM <sub>10</sub>	0.24	0.06
		PM <sub>2.5</sub>	0.04	0.01
LMB6F	Limestone System - Transfer From System B to Storage Pile to Conveyor C-2	PM	0.08	0.13
		PM <sub>10</sub>	0.04	0.06
		PM <sub>2.5</sub>	0.01	0.01
LMB7F	Limestone System –Tower No. 2 Transfer From Conveyor C-2 to C- 3	PM	0.01	0.01
		PM <sub>10</sub>	< 0.01	0.01
		PM <sub>2.5</sub>	< 0.01	< 0.01
LMB8F	Limestone System - Conveyors C-3 and C-24 Transfers into Surge Bins	PM	< 0.01	0.01
		PM <sub>10</sub>	< 0.01	< 0.01

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		PM <sub>2.5</sub>	< 0.01	< 0.01
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
		PM <sub>2.5</sub>	< 0.01	0.01
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
		PM <sub>2.5</sub>	< 0.01	0.01
MSS-FUG	MSS Fugitives (8)	VOC	61.84	0.70
		PM	4.09	2.86
		Ammonia/Urea	26.15	0.36
		NO <sub>x</sub>	< 0.01	< 0.01
		CO	< 0.01	< 0.01
		SO <sub>2</sub>	< 0.01	< 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.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO<sub>x</sub> - total oxides of nitrogen
- SO<sub>2</sub> - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
- PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
- PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- Pb - lead
- Hg - mercury
- HF - hydrogen fluoride
- H<sub>2</sub>SO<sub>4</sub> - sulfuric acid mist
- (4) The pound per hour and ton per year emission limits specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities, unless otherwise noted.
- (5) Compliance with NO<sub>x</sub>, PM, PM<sub>10</sub>, SO<sub>2</sub>, VOC, Pb, HF, H<sub>2</sub>SO<sub>4</sub>, and Hg hourly emissions is determined on a block 3-hour average basis. Compliance with the CO hourly emission limit is determined on a 30-day average basis. For each pollutant whose emissions during planned MSS activities are measured using a CEMS, the MSS lb/hr limits apply only during each clock hour that includes one or more minutes of MSS activities. During all other clock hours, the normal lb/hr limits apply.

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- (6) Compliance with all annual emission limits is based on a calendar year. Only for purposes of demonstrating compliance for EPNs S1-A and B, total combined actual annual emissions from EPNs S1-A 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.
- (7) MSS hourly emission limit only. The tpy emission limit represented in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities.
- (8) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: Xxx, 2015