Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 17294 and PSDTX714

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	
			lbs/hour	TPY (4)
1-1	170 MWe FBC Stack (5, 6, 7, 8)	NO_x	935.0	4098.0
		CO	101.0	441.0
		VOC	1.4	6.2
		PM	314.0	1375.3
		PM_{10}	314.0	1375.3
		$PM_{2.5}$	314.0	1375.3
		SO_2	1200.0	3961.0
		H_2SO_4	9.3	20.5
		Hg	0.3	1.3
		Ni	1.0	3.1
1-5	Standby Generator	NO_x	4.42	2.76
		CO	0.53	0.33
		PM	0.72	0.45
		PM_{10}	0.72	0.45
		$PM_{2.5}$	0.72	0.45
		SO_2	0.33	0.21
1-6	Limestone Roller Mill 1 East	PM	0.096	1.40
		PM_{10}	0.096	1.40
		$PM_{2.5}$	0.096	1.40
1-7	Limestone Roller Mill 2 West	PM	0.096	1.40
		PM_{10}	0.096	1.40
		$PM_{2.5}$	0.096	1.40

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1-8	Tripper Deck	PM	0.04	0.20
		PM_{10}	0.04	0.20
		$PM_{2.5}$	0.04	0.20
1-11	Raw Limestone Product Silo East Baghouse Stack	PM	0.03	0.60
		PM_{10}	0.03	0.60
		$PM_{2.5}$	0.03	0.60
1-12	Raw Limestone Product Silo West Baghouse Stack	PM	0.03	0.60
		PM_{10}	0.03	0.60
		$PM_{2.5}$	0.03	0.60
1-13	Finish Limestone Product Silo East Baghouse Stack	PM	0.002	0.38
		PM_{10}	0.002	0.38
		$PM_{2.5}$	0.002	0.38
1-14	Finish Limestone Product Silo West Baghouse Stack	PM	0.002	0.38
		PM_{10}	0.002	0.38
		$PM_{2.5}$	0.002	0.38
1-15	Sand Product Silo East Baghouse Stack	PM	0.007	1.00
		PM_{10}	0.007	1.00
		$PM_{2.5}$	0.007	1.00
1-16	Sand Product Silo West Baghouse Stack	PM	0.007	1.00
		PM_{10}	0.007	1.00
		$PM_{2.5}$	0.007	1.00
MSS-FUG	MSS Fugitives (9)	NO_x	< 0.01	< 0.01
		CO	< 0.01	< 0.01
		VOC	4.58	< 0.01
		PM	< 0.01	< 0.01
		PM_{10}	< 0.01	< 0.01
		$PM_{2.5}$	< 0.01	< 0.01
		SO_2	< 0.01	< 0.01

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		NH_3	< 0.01	< 0.01

(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 area name or fugitive source name.
(3) PM - particulate matter, suspended in the atmosphere, including PM_{10}.
PM_{10} - particulate matter equal to or less than 10 microns in diameter.
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
CO - carbon monoxide
H_2SO_4 - sulfuric acid mist
Hg - total mercury emissions
Ni - total nickel emissions
NH_3 - ammonia
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) The lb/hr and tpy emission limits specified in the MAERT for this facility includes emissions from the facility during normal operations and planned maintenance, startup, and shutdown (MSS) activities.
(6) PM, PM_{10} and $PM_{2.5}$ emission rates include filterable (front-half) and condensable (back-half) fractions.
(7) Hourly VOC emissions from the fluidized bed combustor may vary by two orders of magnitude.
(8) Hourly SO_2 limit is based on a rolling three-hour average.
(9) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: March 21, 2014