Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 51770 and PSDTX486M3

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)(8)	Air Contaminant Name (3)	Emission Rates*	
			lbs/hour (4)(5)	TPY (4)(6)
FPP-1N (FPP-1)	Unit 1 Steam Electric Generator	VOC	26.30	112.66
		NO_x	1725.63	3004.36
		CO	1296.40	5678.25
		SO_2	1800.56	1577.29
		H_2SO_4	83.80	155.03
		Pb	0.10	0.33
		PM	274.37	1201.74
		PM_{10}	274.37	1201.74
		$PM_{2.5}$	274.37	1201.74
		PM (7)	2110.67	-
		PM_{10} (7)	554.31	-
		$PM_{2.5}$ (7)	207.39	-
		Pb (7)	0.25	-
		HCl	262.40	99.49
		HF	24.03	32.27
FPP-2N (FPP-2)	Unit 2 Steam Electric Generator	VOC	26.30	113.26
		NO_x	1673.89	3020.20
		CO	1716.96	7520.31
		SO_2	1810.05	1585.61
		H_2SO_4	83.80	155.84

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		Pb	0.10	0.33
		PM	275.82	1208.08
		PM_{10}	275.82	1208.08
		$PM_{2.5}$	275.82	1208.08
		PM (7)	2110.67	-
		PM_{10} (7)	554.31	-
		$PM_{2.5}$ (7)	207.39	-
		Pb (7)	0.25	-
		HCl	263.79	100.01
		HF	24.16	32.44
3-1B	Unit 3 Steam Electric Generator	VOC	36.00	101.59
		NO_x	1059.61	2708.94
		CO	920.25	4030.70
		SO_2	1948.21	2844.39
		H_2SO_4	79.78	139.78
		Pb	0.09	0.29
		PM	123.70	541.79
		PM_{10}	123.70	541.79
		$PM_{2.5}$	123.70	541.79
		PM (7)	1926.92	-
		PM_{10} (7)	512.04	-
		$PM_{2.5}$ (7)	196.36	-
		Pb (7)	0.22	-
		HCl	236.60	89.70

Emission Sources - Maximum Allowable Emission Rates

		HF	21.67	29.09
FPP-1N (FPP-1), FPP-2N (FPP-2), 3-1B	Final Compliance Cap for Units 1, 2, & 3	VOC	-	276.58
		CO	3738.40	11878.17
		SO_2	3461.38	-
		H_2SO_4	155.98	-
		HCl	624.88	-
		HF	66.40	-
FLYASH-1	Flyash Silo-1 Baghouse	PM	0.02	0.04
		PM_{10}	0.02	0.04
		$PM_{2.5}$	0.02	0.04
FLYASH-2	Flyash Silo-2 Baghouse	PM	0.02	0.04
		PM_{10}	0.02	0.04
		$PM_{2.5}$	0.02	0.04
FLYASH-3	Unit 1 Storage Bin Baghouse	PM	0.02	0.04
		PM_{10}	0.02	0.04
		$PM_{2.5}$	0.02	0.04
FLYASH-4	Unit 2 Storage Bin Baghouse	PM	0.02	0.04
		PM_{10}	0.02	0.04
		$PM_{2.5}$	0.02	0.04
3-1A	Ash Collection Baghouse	PM	0.10	0.10
		PM_{10}	0.10	0.10
		$PM_{2.5}$	0.10	0.10
3-2A	Ash Transport Baghouse	PM	0.08	0.10
		PM_{10}	0.08	0.10

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.08	0.10
3-3A	Ash Collection Baghouse	PM	0.10	0.10
		PM_{10}	0.10	0.10
		$PM_{2.5}$	0.10	0.10
3-4A	Ash Transport Baghouse	PM	0.08	0.10
		PM_{10}	0.08	0.10
		$PM_{2.5}$	0.08	0.10
FLYASH-1-TRUCK	Fly Ash Silo 1 Truck Loading Fugitives	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
FLYASH-2-TRUCK	Fly Ash Silo 2 Truck Loading Fugitives	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
3-3A-TRUCK	Unit 3 Truck Loading Fugitives 3-3A	PM	0.03	0.03
		PM_{10}	0.03	0.03
		$PM_{2.5}$	0.03	0.03
3-4A-TRUCK	Unit 3 Truck Loading Fugitives 3-4A	PM	0.02	0.03
		PM_{10}	0.02	0.03
		$PM_{2.5}$	0.02	0.03
3-1L	Limestone Unloading	PM	0.06	0.01
		PM_{10}	0.03	0.01
		$PM_{2.5}$	0.01	<0.01
3-2L	Limestone Reclaim	PM	0.03	0.01
		PM_{10}	0.02	<0.01

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	<0.01	<0.01
3-3L	Limestone Stackout	PM	0.03	0.01
		PM_{10}	0.02	<0.01
		$PM_{2.5}$	<0.01	<0.01
3-4L	Limestone Reclaim	PM	0.02	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
3-5L	Limestone C Belt Transfer	PM	0.01	0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
3-5L Silo A	Limestone A Silo Transfer	PM	0.01	0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
3-5L Silo C	Limestone C Silo Transfer	PM	0.01	0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
3-6L	Limestone Crusher	PM	0.30	0.20
		PM_{10}	0.14	0.10
		$PM_{2.5}$	0.02	0.01
3-7L	Limestone Crusher	PM	0.30	0.20
		PM_{10}	0.14	0.10
		$PM_{2.5}$	0.02	0.01
3-8L	Limestone Crusher	PM	0.30	0.20
		PM_{10}	0.14	0.10

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.02	0.01
3-9L	Grinding Mill Transfer A	PM	<0.01	-
		PM_{10}	<0.01	-
		$PM_{2.5}$	<0.01	-
3-10L	Grinding Mill Transfer C	PM	<0.01	-
		PM_{10}	<0.01	-
		$PM_{2.5}$	<0.01	-
3-9L & 3-10L	Grinding Mill Transfer A & C	PM	-	0.01
		PM_{10}	-	<0.01
		$PM_{2.5}$	-	<0.01
COAL-1	Coal Railcar Unloading	PM	0.16	0.23
		PM_{10}	0.16	0.23
		$PM_{2.5}$	0.16	0.23
COAL-2	Coal Transfer	PM	0.21	0.31
		PM_{10}	0.21	0.31
		$PM_{2.5}$	0.21	0.31
COAL-3	Coal Transfer	PM	0.11	0.10
		PM_{10}	0.11	0.10
		$PM_{2.5}$	0.11	0.10
COAL-4	Coal Transfer to Pile	PM	0.80	0.77
		PM_{10}	0.38	0.36
		$PM_{2.5}$	0.06	0.06
COAL-5	Coal Reclaim 1 & 2	PM	0.05	0.08
		PM_{10}	0.05	0.08

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.05	0.08
COAL-6	Coal Crusher	PM	0.40	0.62
		PM_{10}	0.40	0.62
		$PM_{2.5}$	0.40	0.62
COAL-7	Coal Transfer Surge Bin	PM	0.03	0.04
		PM_{10}	0.03	0.04
		$PM_{2.5}$	0.03	0.04
COAL-8	Coal Transfer Surge Bin	PM	0.03	0.04
		PM_{10}	0.03	0.04
		$PM_{2.5}$	0.03	0.04
COAL-9	Coal Transfer to Silo Baghouse	PM	0.03	0.04
		PM_{10}	0.03	0.04
		$PM_{2.5}$	0.03	0.04
COAL-10	Coal Transfer to Silo Baghouse	PM	0.03	0.04
		PM_{10}	0.03	0.04
		$PM_{2.5}$	0.03	0.04
PILE 1 & 2	Coal Piles 1 & 2	PM	5.20	22.78
		PM_{10}	2.46	10.77
		$PM_{2.5}$	0.37	1.63
ASH PILE	Combustion By-Product Landfill	PM	1.09	4.79
		PM_{10}	0.52	2.27
		$PM_{2.5}$	0.08	0.34
PILE-3A	Unit 3 Active Coal Pile	PM	0.34	1.47
		PM_{10}	0.16	0.70

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.02	0.11
PILE 3-D	Unit 3 Dead Coal Pile	PM	2.21	9.68
		PM_{10}	1.05	4.58
		$PM_{2.5}$	0.16	0.69
3-2F	Coal Transfer	PM	1.26	1.32
		PM_{10}	0.60	0.63
		$PM_{2.5}$	0.09	0.10
3-3F/3-12F	Transfer to Unit 3 Active/Dead Coal Piles	PM	2.11	2.21
		PM_{10}	1.00	1.04
		$PM_{2.5}$	0.15	0.16
3-4F	Coal Transfer	PM	0.60	1.32
		PM_{10}	0.29	0.63
		$PM_{2.5}$	0.04	0.10
3-5F	Coal Transfer	PM	0.06	0.13
		PM_{10}	0.06	0.13
		$PM_{2.5}$	0.06	0.13
3-6F	Coal Transfer	PM	0.30	0.66
		PM_{10}	0.30	0.66
		$PM_{2.5}$	0.30	0.66
3-7F	Coal Transfer	PM	0.60	1.32
		PM_{10}	0.60	1.32
		$PM_{2.5}$	0.60	1.32
3-8F	Coal Transfer	PM	0.08	0.04
		PM_{10}	0.08	0.04

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.08	0.04
3-9F	Coal Transfer	PM	0.08	0.04
		PM_{10}	0.08	0.04
		$PM_{2.5}$	0.08	0.04
3-13F	Coal Transfer Baghouse	PM	0.04	0.09
		PM_{10}	0.04	0.09
		$PM_{2.5}$	0.04	0.09
3-14F	Coal Transfer Baghouse	PM	0.02	0.04
		PM_{10}	0.02	0.04
		$PM_{2.5}$	0.02	0.04
3-15F	Coal Transfer	PM	0.19	0.44
		PM_{10}	0.09	0.21
		$PM_{2.5}$	0.01	0.03
3-16F	Coal Transfer	PM	0.11	0.16
		PM_{10}	0.11	0.16
		$PM_{2.5}$	0.11	0.16
3-17F	Coal Transfer	PM	1.26	1.32
		PM_{10}	0.60	0.63
		$PM_{2.5}$	0.09	0.10
3-18F	Dead Storage Reclaim	PM	0.40	0.44
		PM_{10}	0.19	0.21
		$PM_{2.5}$	0.03	0.03

Emission Sources - Maximum Allowable Emission Rates

3-19F	Active Storage Reclaim	PM	0.60	0.66
		PM_{10}	0.29	0.31
		$PM_{2.5}$	0.04	0.05
MSSFUG	Storage Tank Maintenance Emissions (ILE)	VOC	182.83	0.30
MSSFUG	Planned Sitewide MSS Activities (ILE)	NO_x	2.43	1.21
		CO	1.49	0.70
		SO_2	0.01	0.01
		PM	6.20	3.77
		PM_{10}	3.87	2.83
		$PM_{2.5}$	0.89	0.36
		VOC	0.90	0.16

(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_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
HCl - hydrogen chloride
HF - hydrogen fluoride
H_2SO_4 - sulfuric acid mist
Pb - lead
(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) 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.
(6) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period, unless otherwise note in permit special conditions.
(7) MSS hourly emission limit only. The tpy emission limit specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities.
(8) ILE – Inherently Low Emitting

* 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

Emission Sources - Maximum Allowable Emission Rates

Date: June 13, 2018