

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)	Air Contaminant Name (3)	Emission Rates*	
			lbs/hour (4)(5)	TPY (4)(6)
FPP-1N	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 ₂ SO ₄	83.80	155.03
		Pb	0.10	0.33
		PM/PM ₁₀ /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	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 ₂ SO ₄	83.80	155.84
		Pb	0.10	0.33
		PM/PM ₁₀ /PM _{2.5}	275.82	1208.08

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		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 ₂ SO ₄	79.78	139.78
		Pb	0.09	0.29
		PM/PM ₁₀ /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
		HF	21.67	29.09
FPP-1N, FPP-2N, 3-1B	Final Compliance Cap for Units 1, 2, & 3	VOC	-	276.58
		CO	3738.40	11878.17
		SO ₂	3461.38	-
		H ₂ SO ₄	155.98	-
		HCl	624.88	-

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		HF	66.40	-
FLYASH-1	Flyash Silo-1 Baghouse	PM/PM ₁₀ /PM _{2.5}	0.020	0.036
FLYASH-2	Flyash Silo-2 Baghouse	PM/PM ₁₀ /PM _{2.5}	0.020	0.036
FLYASH-3	Unit 1 Storage Bin Baghouse	PM/PM ₁₀ /PM _{2.5}	0.020	0.036
FLYASH-4	Unit 2 Storage Bin Baghouse	PM/PM ₁₀ /PM _{2.5}	0.020	0.036
3-1A	Ash Collection Baghouse	PM/PM ₁₀ /PM _{2.5}	0.099	0.096
3-2A	Ash Transport Baghouse	PM/PM ₁₀ /PM _{2.5}	0.079	0.096
3-3A	Ash Collection Baghouse	PM/PM ₁₀ /PM _{2.5}	0.099	0.096
3-4A	Ash Transport Baghouse	PM/PM ₁₀ /PM _{2.5}	0.079	0.096
3-1L	Limestone Unloading	PM	0.063	0.013
		PM ₁₀	0.030	0.006
		PM _{2.5}	0.005	0.001
3-2L	Limestone Reclaim	PM	0.032	0.006
		PM ₁₀	0.015	0.003
		PM _{2.5}	0.002	0.001
3-3L	Limestone Stackout	PM	0.006	0.004
		PM ₁₀	0.003	0.002
		PM _{2.5}	0.0005	0.0003
3-4L	Limestone Reclaim	PM	0.006	0.004
		PM ₁₀	0.003	0.002
		PM _{2.5}	0.0005	0.0003
3-5L	Limestone Silo Transfer	PM	0.006	0.002
		PM ₁₀	0.003	0.001
		PM _{2.5}	0.001	0.0002

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3-6L	Limestone Crusher	PM	0.300	0.200
		PM ₁₀	0.142	0.095
		PM _{2.5}	0.021	0.014
3-7L	Limestone Crusher	PM	0.300	0.200
		PM ₁₀	0.142	0.095
		PM _{2.5}	0.021	0.014
3-8L	Limestone Crusher	PM	0.300	0.200
		PM ₁₀	0.142	0.095
		PM _{2.5}	0.021	0.014
COAL-1	Coal Railcar Unloading	PM/ PM ₁₀ /PM _{2.5}	0.161	0.233
COAL-2	Coal Transfer	PM/ PM ₁₀ /PM _{2.5}	0.107	0.155
COAL-3	Coal Transfer	PM/ PM ₁₀ /PM _{2.5}	0.107	0.102
COAL-4	Coal Transfer to Pile	PM	0.803	0.765
		PM ₁₀	0.380	0.362
		PM _{2.5}	0.057	0.055
COAL-5	Coal Reclaim 1 & 2	PM/PM ₁₀ /PM _{2.5}	0.054	0.083
COAL-6	Coal Crusher	PM/PM ₁₀ /PM _{2.5}	0.400	0.620
COAL-7	Coal Transfer Surge Bin	PM/ PM ₁₀ /PM _{2.5}	0.027	0.041
COAL-8	Coal Transfer Surge Bin	PM/PM ₁₀ /PM _{2.5}	0.027	0.041
COAL-9	Coal Transfer to Silo Baghouse	PM/ PM ₁₀ /PM _{2.5}	0.027	0.041
COAL-10	Coal Transfer to Silo Baghouse	PM/PM ₁₀ /PM _{2.5}	0.027	0.041
PILE 1 & 2	Coal Piles 1 & 2	PM	5.20	22.78
		PM ₁₀	2.46	10.772
		PM _{2.5}	0.372	1.631

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ASH PILE	Combustion By-Product Landfill	PM	1.09	4.79
		PM ₁₀	0.517	2.266
		PM _{2.5}	0.078	0.343
PILE-3A	Unit 3 Active Coal Pile	PM	0.335	1.469
		PM ₁₀	0.159	0.695
		PM _{2.5}	0.024	0.106
PILE 3-D	Unit 3 Dead Coal Pile	PM	1.21	5.30
		PM ₁₀	0.572	2.505
		PM _{2.5}	0.087	0.379
3-2F	Coal Transfer	PM	1.26	1.32
		PM ₁₀	0.598	0.626
		PM _{2.5}	0.091	0.095
3-3F/3-12F	Transfer to Unit 3 Active/Dead Coal Piles	PM	2.11	2.21
		PM ₁₀	0.997	1.044
		PM _{2.5}	0.151	0.158
3-4F	Coal Transfer	PM	0.602	1.324
		PM ₁₀	0.285	0.626
		PM _{2.5}	0.043	0.095
3-5F	Coal Transfer	PM/PM ₁₀ /PM _{2.5}	0.040	0.088
3-6F	Coal Transfer	PM/PM ₁₀ /PM _{2.5}	3.000	6.600
3-7F	Coal Transfer	PM/PM ₁₀ /PM _{2.5}	0.040	0.088
3-8F	Coal Transfer	PM/PM ₁₀ /PM _{2.5}	0.080	0.044
3-9F	Coal Transfer	PM/PM ₁₀ /PM _{2.5}	0.080	0.044
3-13F	Coal Transfer Baghouse	PM/PM ₁₀ /PM _{2.5}	0.040	0.088

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3-14F	Coal Transfer Baghouse	PM/PM ₁₀ /PM _{2.5}	0.019	0.044
3-15F	Coal Transfer	PM	0.187	0.44
		PM ₁₀	0.089	0.209
		PM _{2.5}	0.013	0.032
3-16F	Coal Transfer	PM/PM ₁₀ /PM _{2.5}	0.084	0.155
3-17F	Coal Transfer	PM	1.26	1.32
		PM ₁₀	0.598	0.626
		PM _{2.5}	0.091	0.095
3-18F	Dead Storage Reclaim	PM	0.401	0.441
		PM ₁₀	0.190	0.209
		PM _{2.5}	0.029	0.032
3-19F	Active Storage Reclaim	PM	0.602	0.662
		PM ₁₀	0.285	0.313
		PM _{2.5}	0.043	0.047
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.

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- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
PM₁₀ - 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
H₂SO₄ - 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.
- * 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

Date: May 2, 2014