Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 76474 and PSDTX1056

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)
E-OGU1	Pulverized Coal (Lignite) Boiler (8,970 MMBtu/hr)	NO_x	1,800	3,143
		SO_2	5,382	7,543
		PM/PM_{10} (filter) (5)	135	589
		PM/PM_{10} (total)	449	1,572
		CO	6,100	13,358
		VOC	47	176
		H_2SO_4	165	481
		NH_3	55	96
		HF	64	140
		HCl	110	241
		Pb	0.26	0.38
		Hg	0.93	0.36
E-OGU2	Pulverized Coal (Lignite) Boiler (8,970 MMBtu/hr)	NO_x	1,800	3,143
		SO_2	5,382	7,543
		PM/PM_{10} (filter) (5)	135	589
		PM/PM_{10} (total)	449	1,572
		CO	6,100	13,358
		VOC	47	176
		H_2SO_4	165	481
		NH_3	55	96
		HF	64	140
		HCl	110	241
		Pb	0.26	0.38
		Hg	0.93	0.36
E-OGAB	Natural Gas-Fired Auxiliary Boiler (365 MMBtu/hr) (Phase 1 - PC Boiler Construction Phase)	NO_x (5) (6)	13.1	57.6
		NO_x (5) (7)	36.5	--
		CO (6)	13.5	59.1

Emission Sources - Maximum Allowable Emission Rates

		CO (7)	135.0	--
		SO_2	5.1	22.4
		PM/PM_{10}	2.7	11.9
		VOC	2.0	8.6
E-OGAB	Natural Gas-Fired Auxiliary Boiler (365 MMBtu/hr) (Phase 2 - 10 percent Annual Capacity Factor)	NO_x (6)	13.1	5.8
		NO_x (7)	36.5	--
		CO (6)	13.5	5.9
		CO (7)	135.0	--
		SO_2	5.1	2.2
		PM/PM_{10}	2.7	1.2
		VOC	2.0	0.9
E-OGLTHF	Railcar Coal Unloading Building Fugitives (8)	PM	1.34	1.65
		PM_{10}	0.26	0.31
E-OGLTHBF	Railcar Coal Unloading - Track Hopper Fugitives (8)	PM	0.01	0.02
		PM_{10}	0.01	0.01
E-OGLSILO	Lignite Storage Silo Bin Vent Filter	PM	0.01	0.01
		PM_{10}	0.01	0.01
E-OGSSPRF	Reclaim from Silo and Stackout Pile Fugitives (8)	PM	0.01	0.02
		PM_{10}	0.01	0.01
E-OGLSPF	Lignite Stackout Pile Fugitives (8)	PM	0.16	0.21
		PM_{10}	0.03	0.04
E-OGCHBV	Lignite Crusher House Surge Bin Vent Filter	PM	0.01	0.01
		PM_{10}	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

E-OGCHF	Lignite Crusher House Fugitives (8)	PM	1.20	2.25
		PM_{10}	0.23	0.43
E-OGSBTTBV	Surge Bin Transfer Tower Bin Vent Filter	PM	0.01	0.01
		PM_{10}	0.01	0.01
E-OGSBTTF	Surge Bin Transfer Tower Fugitives (8)	PM	0.01	0.01
		PM_{10}	0.01	0.01
E-OGTT4F	Transfer Tower 4 Fugitives (8)	PM	0.01	0.01
		PM_{10}	0.01	0.01
E-OGU1SSV	Unit 1 South Side Tripper House Baghouse Vent	PM	0.01	0.01
		PM_{10}	0.01	0.01
E-OGTT2F	Transfer Tower 2 Fugitives (8)	PM	0.01	0.01
		PM_{10}	0.01	0.01
E-OGU1NSV	Unit 1 North Side Tripper House Baghouse Vent	PM	0.01	0.01
		PM_{10}	0.01	0.01
E-OGU2SSV	Unit 2 South Side Tripper House Baghouse Vent	PM	0.01	0.01
		PM_{10}	0.01	0.01
E-OGTT3F	Transfer Tower 3 Fugitives (8)	PM	0.01	0.01
		PM_{10}	0.01	0.01
E-OGU2NSV	Unit 2 North Side Tripper House Baghouse Vent	PM	0.01	0.01
		PM_{10}	0.01	0.01
E-OGLDSPF	Lignite Dead Storage Pile Dust Fugitive (8)	PM	1.48	5.18
		PM_{10}	0.28	0.98
E-OGLSSF	Limestone Storage Shed Fugitives (8)	PM	0.11	0.16
		PM_{10}	0.05	0.08
E-OGSLSAF	Secondary Limestone Storage Pile Dust Fugitives (8)	PM	1.49	2.17

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.75	1.09
E-OGLSPRF	Limestone Storage Reclaim Belt Fugitives (8)	PM	0.02	0.01
		PM_{10}	0.01	0.01
E-OGLSSB1V	Limestone Storage Silo 1 Bin Vent Filter	PM	0.01	0.01
		PM_{10}	0.01	0.01
E-OGLSSB2V	Limestone Storage Silo 2 Bin Vent Filter	PM	0.01	0.01
		PM_{10}	0.01	0.01
E-OGLSSB3F	Limestone Storage Conveyor Transfer Fugitives (8)	PM	0.01	0.01
		PM_{10}	0.01	0.01
E-OGSSSV	Sorbent Storage Silo Baghouse Vent	PM_{10}	0.06	0.24
E-OGVS1V1	Unit 1 Fly Ash Filter Separators Baghouse Vent	PM	0.20	0.89
		PM_{10}	0.07	0.31
E-OGVS1V2	Unit 1 Fly Ash Filter Separators Baghouse Vent	PM	0.20	0.89
		PM_{10}	0.07	0.31
E-OGVS1V3	Unit 1 Fly Ash Filter Separators Baghouse Vent	PM	0.20	0.89
		PM_{10}	0.07	0.31
E-OGFAS1V1	Fly Ash Silo 1 Bin Vent Filter	PM	0.99	1.80
		PM_{10}	0.36	0.63
E-OGSLS1V	Fly Ash Silo 1 Loading Spout Baghouse Vent	PM	0.03	0.11
		PM_{10}	0.03	0.11
E-OGWFAU1F	Fly Ash Silo 1 Loading Dust Fugitive (8)	PM	0.03	0.06
		PM_{10}	0.01	0.01
E-OGVS2V1	Unit 2 Fly Ash Filter Separators Baghouse Vent	PM	0.20	0.89
		PM_{10}	0.07	0.31
E-OGVS2V2	Unit 2 Fly Ash Filter Separators	PM	0.20	0.89

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.07	0.31
E-OGVS2V3	Unit 2 Fly Ash Filter Separators Baghouse Vent	PM	0.20	0.89
		PM_{10}	0.07	0.31
E-OGFAS2V1	Fly Ash Silo 2 Bin Vent Filter	PM	0.33	0.60
		PM_{10}	0.12	0.21
E-OGFAS2V2	Fly Ash Silo 2 Bin Vent Filter	PM	0.33	0.60
		PM_{10}	0.12	0.21
E-OGFAS2V3	Fly Ash Silo 2 Bin Vent Filter	PM	0.33	0.60
		PM_{10}	0.12	0.21
E-OGSLS2V	Fly Ash Silo 2 Loading Spout Baghouse Vent	PM	0.03	0.11
		PM_{10}	0.03	0.11
E-OGWFAU2F	Fly Ash Silo 2 Loading Dust Fugitive (8)	PM	0.03	0.06
		PM_{10}	0.01	0.01
E-OGLDLF E-OGRDLF	Landfill Areas - Active Working Faces - Dust Fugitive (8)	PM	0.26	1.16
		PM_{10}	0.14	0.58
E-OGLDLF E-OGRDLF	Landfill Areas - Inactive Working Faces - Dust Fugitive (8)	PM	0.08	0.32
		PM_{10}	0.04	0.16
E-OGGHSF	Gypsum Handling System Dust Fugitive (8)	PM	0.01	0.01
		PM_{10}	0.01	0.01
E-OGAMM	Ammonia Fugitive (8)	NH_3	0.04	0.19
MSS-FUG	MSS-FUG (9)	PM	1.48	0.49
		PM_{10}	0.95	0.29
		$PM_{2.5}$	0.37	0.10
		NH_3	10.33	0.15
		VOC	21.08	0.14

Emission Sources - Maximum Allowable Emission Rates

		NO_x	<0.01	<0.01
		CO	<0.01	<0.01
		SO_2	<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_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$
PM_{10} - 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
H_2SO_4 - sulfuric acid mist
NH_3 - ammonia
HF - hydrogen fluoride
HCl - hydrogen chloride
Pb - lead
Hg - mercury

(4) Except as otherwise specified in special conditions, annual emission rates are based on continuous operation (24 hours/day, 7 days/week, 52 weeks/year, or 8,760 hours/year). For combustion sources and storage tanks, compliance with annual emission limits is based on a rolling 12-month period. For material handling sources, compliance with annual emission limits is based on applicable special conditions and permit application representations.
(5) Compliance with the hourly emission limit is based on a three-hour block average of the CEMS data.
(6) Hourly limit applies when auxiliary boiler is operating at or above 25 percent load.
(7) Hourly limit applies when auxiliary boiler is operating below 25 percent load and during startup and shutdown.
(8) Fugitives emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
(9) Includes inherently low emitting (ILE) and non-ILE fugitive emissions from sources and activities listed on Attachments B and C. Emission rates are an estimate and are enforceable through compliance with the applicable special conditions and permit application representations.

Date: July 9, 2012