Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 5933 and PSDTX63M4

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	TPY (5)
Baghouse Controls				
1-AE-1	Rock Crushing and Transfer Baghouse	PM	0.92	4.04
		PM_{10}	0.92	4.04
		$PM_{2.5}$	0.14	0.61
1-AE-2	Sampling Tower Baghouse	PM	0.43	1.88
		PM_{10}	0.43	1.88
		$PM_{2.5}$	0.06	0.28
1-BE-1	Raw Material Baghouse	PM	0.43	1.88
		PM_{10}	0.43	1.88
		$PM_{2.5}$	0.06	0.28
1-BE-2	Raw Material Bin Baghouse	PM	0.90	3.94
		PM_{10}	0.90	3.94
		$PM_{2.5}$	0.14	0.60
1-DE-1	Transfer Blend Silos Baghouse	PM	1.37	6.01
		PM_{10}	1.37	6.01
		$PM_{2.5}$	0.21	0.91
1-DE-2	Blend Silos Pneumatic System Baghouse	PM	0.29	1.29
		PM_{10}	0.29	1.29
		$PM_{2.5}$	0.04	0.19
1-DE-2a	Air Slide Feed Bucket Elevator Baghouse	PM	0.21	0.94
		PM_{10}	0.21	0.94
		$PM_{2.5}$	0.03	0.14
1-DE-3	No. 1 Kiln System Stack	CO (6)	660	2,892
		SO_2 (6)	50	35
		H_2SO_4 (7)	5	4

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		PM (7)	35	155
		PM_{10} (7)	35	155
		$PM_{2.5}$ (7)	30	132
		VOC (7)	20	88
		HCl (7)	3.8	17
		NO_x (7) (April 1 - Oct 31)	232	596
		NO_x (7) (Nov 1 - Mar 31)	390	707
		NH_3 (6)	51	38
1-DE-4	Clinker Cooler Exhaust Baghouse	PM	8.46	37.07
		PM_{10}	8.46	37.07
		$PM_{2.5}$	0.53	2.33
1-EE-1	Coal Mill Baghouse	PM	0.79	3.17
		PM_{10}	0.79	3.17
		$PM_{2.5}$	0.12	0.48
1-FE-1	Clinker Bin Baghouse	PM	0.21	0.94
		PM_{10}	0.21	0.94
		$PM_{2.5}$	0.03	0.14
1-FE-2	Clinker Storage Building Baghouse	PM	0.43	1.88
		PM_{10}	0.43	1.88
		$PM_{2.5}$	0.06	0.28
1-FE-3	Gypsum and Anhydrite Silos Transfer Baghouse	PM	0.21	0.94
		PM_{10}	0.21	0.94
		$PM_{2.5}$	0.03	0.14
1-FE-4	Gypsum and Anhydrite Silos Bin Baghouse	PM	0.21	0.94
		PM_{10}	0.21	0.94
		$PM_{2.5}$	0.03	0.14
1-FE-6	Clinker Merrick Feeder Baghouse	PM	0.21	0.94
		PM_{10}	0.21	0.94
		$PM_{2.5}$	0.03	0.14
1-FE-7	Clinker Transfer Point No. 1 Baghouse	PM	0.43	1.88
		PM_{10}	0.43	1.88

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.06	0.28
1-FE-8	Fringe Cement Tank Baghouse	PM	0.21	0.94
		PM_{10}	0.21	0.94
		$PM_{2.5}$	0.03	0.14
1-FE-9	Fringe Cement Tank Baghouse	PM	0.21	0.94
		PM_{10}	0.21	0.94
		$PM_{2.5}$	0.03	0.14
1-FE-14	Gypsum Merrick Feeder Baghouse	PM	0.21	0.94
		PM_{10}	0.21	0.94
		$PM_{2.5}$	0.03	0.14
1-FE-16	Clinker Bin Drop Baghouse	PM	0.21	0.94
		PM_{10}	0.21	0.94
		$PM_{2.5}$	0.03	0.14
1-FE-17	Clinker Reclaim Building Baghouse	PM	0.43	1.88
		PM_{10}	0.43	1.88
		$PM_{2.5}$	0.06	0.28
1-GE-1/2	Finish Mill No. 1 and 2 Baghouse	PM	4.13	18.07
		PM_{10}	4.13	18.07
		$PM_{2.5}$	0.62	2.74
1-GE-4	Gypsum Transfer Tower No. 1 Baghouse	PM	0.13	0.56
		PM_{10}	0.13	0.56
		$PM_{2.5}$	0.02	0.09
1-GE-5	Gypsum Transfer Tower No. 2 Baghouse	PM	0.26	1.13
		PM_{10}	0.26	1.13
		$PM_{2.5}$	0.04	0.17
1-GE-7	Finish Mill No. 2 Baghouse	PM	0.52	2.26
		PM_{10}	0.52	2.26
		$PM_{2.5}$	0.08	0.34
1-GE-8	Finish Mill No. 1 Baghouse	PM	0.52	2.26
		PM_{10}	0.52	2.26
		$PM_{2.5}$	0.08	0.34

Emission Sources - Maximum Allowable Emission Rates

1-HE-1	Cement Silo Baghouse	PM	0.21	0.94
		PM_{10}	0.21	0.94
		$PM_{2.5}$	0.03	0.14
1-HE-2	Cement Silo Baghouse	PM	0.21	0.94
		PM_{10}	0.21	0.94
		$PM_{2.5}$	0.03	0.14
1-HE-3	Cement Loadout Pump No. 1 Baghouse	PM	0.21	0.94
		PM_{10}	0.21	0.94
		$PM_{2.5}$	0.03	0.14
1-HE-4	Loadout Bin No. 1 Baghouse	PM	0.32	1.41
		PM_{10}	0.32	1.41
		$PM_{2.5}$	0.05	0.21
1-HE-5	Loadout Bin No. 2 Baghouse	PM	0.21	0.94
		PM_{10}	0.21	0.94
		$PM_{2.5}$	0.03	0.14
1-HE-6	Cement Loadout Pump No. 2 Baghouse	PM	0.21	0.94
		PM_{10}	0.21	0.94
		$PM_{2.5}$	0.03	0.14
1-HE-7	Truck/Rail Loadout Baghouse	PM	0.21	0.94
		PM_{10}	0.21	0.94
		$PM_{2.5}$	0.03	0.14
1-HE-8	Truck/Rail Loadout Baghouse	PM	0.21	0.94
		PM_{10}	0.21	0.94
		$PM_{2.5}$	0.03	0.14
1-HE-10	Loadout Bin No. 3 Baghouse	PM	0.21	0.94
		PM_{10}	0.21	0.94
		$PM_{2.5}$	0.03	0.14
2-BE-1	Steel Slag Feed Baghouse	PM	0.25	1.09
		PM_{10}	0.25	1.09
		$PM_{2.5}$	0.04	0.16
2-BE-2	Limestone/clay feed transfer	PM	0.13	0.56

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.13	0.56
		$PM_{2.5}$	0.02	0.09
2-BE-3	Drop to Raw Material Storage Dome	PM	0.28	1.22
		PM_{10}	0.28	1.22
		$PM_{2.5}$	0.04	0.18
2-BE-4	Drop to Conveyor from Raw Material Storage Dome	PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	<0.01	0.01
2-DE-1a	Raw Material Feed Bins Baghouse	PM	0.15	0.66
		PM_{10}	0.15	0.66
		$PM_{2.5}$	0.02	0.10
2-DE-1d	Raw Bins Feed Conveyor Baghouse	PM	0.21	0.86
		PM_{10}	0.21	0.86
		$PM_{2.5}$	0.03	0.14
2-DE-1e	Raw Material Bin B01 Baghouse	PM	0.43	1.88
		PM_{10}	0.43	1.88
		$PM_{2.5}$	0.06	0.28
2-DE-1f	Raw Material Bins B02 and B03 Baghouse	PM	0.19	0.84
		PM_{10}	0.19	0.84
		$PM_{2.5}$	0.03	0.13
2-DE-1g	Raw Material Bin B04 Baghouse	PM	0.13	0.56
		PM_{10}	0.13	0.56
		$PM_{2.5}$	0.02	0.09
2-DE-2	Raw Bins to Roller Mill Pneumatic System Baghouse	PM	0.15	0.66
		PM_{10}	0.15	0.66
		$PM_{2.5}$	0.02	0.10
2-DE-2b	Air Slide/Screw Pump to Blend Silo Baghouse	PM	0.11	0.47
		PM_{10}	0.11	0.47
		$PM_{2.5}$	0.02	0.07
2-DE-2c	Air Slide to Blend Silo Baghouse	PM	0.11	0.47
		PM_{10}	0.11	0.47

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.02	0.07
2-DE-2d	Blend Silo Baghouse	PM	1.03	4.51
		PM_{10}	1.03	4.51
		$PM_{2.5}$	0.16	0.68
2-DE-2e	Raw Feed to Preheater Baghouse	PM	0.04	0.19
		PM_{10}	0.04	0.19
		$PM_{2.5}$	0.01	0.03
2-DE-2f	Recirculating Filter Dust Baghouse	PM	0.18	0.79
		PM_{10}	0.18	0.79
		$PM_{2.5}$	0.03	0.12
2-DE-2G	Airslide/screw pumps to Blend Silos	PM	0.09	0.41
		PM_{10}	0.09	0.41
		$PM_{2.5}$	0.01	0.06
2-DE-2H	Blend Silo Bucket Delivery to Day Bin	PM	0.17	0.75
		PM_{10}	0.17	0.75
		$PM_{2.5}$	0.03	0.11
2-DE-3	No. 2 Kiln System Stack	PM (7)	53	214
		PM_{10} (7)	53	214
		$PM_{2.5}$ (7)	45	179
		NO_x (7)	293	1219
		SO_2 (6)	176	86
		H_2SO_4 (7)	18	9
		VOC (7)	20	66
		CO (6)	500	1043
		HCl (7)	5.3	21
		NH_3 (6)	66	44
1-DE-3 and 2-DE-3	Combined Annual NO_x Nos. 1 and 2 Kiln Stacks	NO_x	--	2,521.08
2-DE-4	No. 2 Clinker Cooler Exhaust Baghouse	PM	6.95	27.81
		PM_{10}	6.95	27.81
		$PM_{2.5}$	0.44	1.75
2-DE-5	Cement Kiln Dust Bin	PM	0.16	0.71

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.16	0.71
		$PM_{2.5}$	0.02	0.11
2-EE-1	Coal Mill (B) Feed System Baghouse	PM	0.34	1.50
		PM_{10}	0.34	1.50
		$PM_{2.5}$	0.05	0.23
2-FE-1a	No. 1 Clinker Outhaul Baghouse	PM	0.13	0.56
		PM_{10}	0.13	0.56
		$PM_{2.5}$	0.02	0.09
2-FE-2	Offspec Clinker Bin Baghouse	PM	0.39	1.69
		PM_{10}	0.39	1.69
		$PM_{2.5}$	0.06	0.26
2-FE-2A	Clinker Transfer to Silo	PM	0.28	1.22
		PM_{10}	0.28	1.22
		$PM_{2.5}$	0.04	0.18
2-FE-2B	Clinker Transfer to Silo	PM	0.17	0.75
		PM_{10}	0.17	0.75
		$PM_{2.5}$	0.03	0.11
2-FE-4	Clinker Feed Bin Baghouse	PM	0.43	1.88
		PM_{10}	0.43	1.88
		$PM_{2.5}$	0.06	0.28
2-FE-5	Finish Mills Feed Bins Delivery	PM	0.15	0.66
		PM_{10}	0.15	0.66
		$PM_{2.5}$	0.02	0.10
2-FE-6	Gypsum/Anhydrite and Limestone Finish Bins Baghouse	PM	0.26	1.13
		PM_{10}	0.26	1.13
		$PM_{2.5}$	0.04	0.17
2-FE-7	Gypsum/Anhydrite and Limestone Feeder Belts Baghouse	PM	0.32	1.41
		PM_{10}	0.32	1.41
		$PM_{2.5}$	0.05	0.21
2-FE-8	Limestone Feed Bin and Outhaul	PM	0.32	1.41
		PM_{10}	0.32	1.41

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.05	0.21
2-FE-10	Finish Mill No. 3 Material Feed Baghouse	PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	<0.01	0.01
2-GE-1	Finish Mill No. 3 Baghouse	PM	8.77	38.40
		PM_{10}	8.77	38.40
		$PM_{2.5}$	1.33	5.81
2-GE-2	Finish Mill No. 3 Air Slides/Bucket Elevator Baghouse	PM	0.02	0.08
		PM_{10}	0.02	0.08
		$PM_{2.5}$	<0.01	0.01
2-GE-3	Finish Mill No. 3 Air Slides/Cement Coolers Baghouse	PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.01
2-GE-4	Fringe Bin	PM	0.43	1.88
		PM_{10}	0.43	1.88
		$PM_{2.5}$	0.06	0.28
2-HE-1	Cement Silos	PM	0.43	1.88
		PM_{10}	0.43	1.88
		$PM_{2.5}$	0.06	0.28
2-HE-2	Cement Loadout Truck Terminal Baghouse	PM	0.03	0.11
		PM_{10}	0.03	0.11
		$PM_{2.5}$	<0.01	0.02
2-HE-3	Cement Loadout Rail Terminal Baghouse	PM	0.03	0.11
		PM_{10}	0.03	0.11
		$PM_{2.5}$	<0.01	0.02
2-HE-4	Old Cement Silos Vent	PM	0.36	1.60
		PM_{10}	0.36	1.60
		$PM_{2.5}$	0.06	0.24
1-GE-4A	Transfer Points 1 & 2	PM	0.05	0.23
		PM_{10}	0.05	0.23
		$PM_{2.5}$	0.01	0.03

Emission Sources - Maximum Allowable Emission Rates

1-GE-4B	1,100 Conveyor (8)	PM	0.05	0.01
		PM_{10}	0.02	<0.01
		$PM_{2.5}$	<0.01	<0.01
2-EE-3	Pulverized Coal Bin Baghouse	PM	0.03	0.13
		PM_{10}	0.03	0.13
		$PM_{2.5}$	<0.01	0.02
2-FE-5A	Clinker Transfer Baghouse	PM	0.11	0.49
		PM_{10}	0.11	0.49
		$PM_{2.5}$	0.02	0.07
1-FE-5	Transfer Tower No. 2 Baghouse	PM	0.19	0.84
		PM_{10}	0.19	0.84
		$PM_{2.5}$	0.03	0.13
Fugitive Emissions from Material Drops				
1-AE-4	Limestone Drop f/FE Loader to Truck (8), (9)	PM	7.53	10.76
		PM_{10}	3.56	5.09
		$PM_{2.5}$	0.54	0.77
1-AE-11	Limestone Drop from Truck to Crusher Bldg Hopper (8)	PM	1.13	1.61
		PM_{10}	0.53	0.76
		$PM_{2.5}$	0.08	0.12
1-AE-12	Clay Drop from Front End Loader to Clay Hopper (8)	PM	0.01	0.01
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
1-AE-14	Clay Drop from Truck to Clay Storage Shed (8)	PM	0.06	0.08
		PM_{10}	0.03	0.04
		$PM_{2.5}$	<0.01	0.01
1-AE-15	Clinker Drop f/ FE Loader to Crusher Hopper (8), (9)	PM	0.70	1.19
		PM_{10}	0.33	0.56
		$PM_{2.5}$	0.05	0.09
1-AE-16	Hopper Drop to Stacker (8), (9)	PM	0.11	0.18
		PM_{10}	0.05	0.08
		$PM_{2.5}$	0.01	0.01

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1-AE-18	Clinker Drop f/FE Loader to Crusher Hopper (8), (9)	PM	0.70	1.19
		PM_{10}	0.33	0.56
		$PM_{2.5}$	0.05	0.09
1-AE-19	Hopper Drop to Crusher and Crushing (8), (9)	PM	0.15	0.21
		PM_{10}	0.07	0.10
		$PM_{2.5}$	0.07	0.10
1-AE-20	Reclaimed Clinker Drop (8)	PM	0.70	1.19
		PM_{10}	0.33	0.56
		$PM_{2.5}$	0.05	0.09
1-AE-21	Reclaimed Clinker Drop to Feed Hopper No. 1 (8)	PM	0.28	1.19
		PM_{10}	0.13	0.56
		$PM_{2.5}$	0.02	0.09
1-AE-22	Feed Hopper Drop to Screw Conveyor (8)	PM	0.04	0.18
		PM_{10}	0.02	0.08
		$PM_{2.5}$	<0.01	0.01
1-BE-10	Iron Additive Drop from FE Loader to Hopper (8)	PM	0.02	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
1-DE-5	ABD Drop to Outhaul Truck (8)	PM	0.11	0.01
		PM_{10}	0.05	< 0.01
		$PM_{2.5}$	0.01	< 0.01
1-EE-3	Dump to Pile Fugitives (8)	PM	0.07	0.26
		PM_{10}	0.03	0.12
		$PM_{2.5}$	<0.01	0.02
1-EE-4	Loader to Coal Hopper (8)	PM	0.03	0.03
		PM_{10}	0.01	0.01
		$PM_{2.5}$	< 0.01	< 0.01
1-EE-4PC	Loader to Coke Hopper (8)	PM	0.02	0.02
		PM_{10}	0.01	0.01
		$PM_{2.5}$	< 0.01	< 0.01
1-EE-5	Hopper to Coal Belt (8)	PM	0.03	0.03

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
1-EE-5PC	Hopper to Coke Belt (8)	PM	0.02	0.02
		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
1-EE-6PC	Coke Belt to Coke Feeder (8)	PM	0.02	0.02
		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
1-EE-7PC	Coke Feeder to Coke Belt (8)	PM	0.02	0.02
		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
1-EE-8	Coal Belt to Coal Bin (8)	PM	0.03	0.03
		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
1-EE-8a	Belt A Drop to Coal Mill Belt B (8)	PM	0.04	0.03
		PM_{10}	0.02	0.01
		$PM_{2.5}$	<0.01	<0.01
1-EE-9	Coal Belt B to Coal Bin B (8)	PM	0.03	0.03
		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
1-GE-9	Coal Railcar to Rail Hopper (8)	PM	0.13	0.06
		PM_{10}	0.06	0.03
		$PM_{2.5}$	0.01	<0.01
1-GE-10	Coal Rail Hopper to Outhaul Belt (8)	PM	0.13	0.06
		PM_{10}	0.06	0.03
		$PM_{2.5}$	0.01	<0.01
1-FE-18	Reclaim Clinker Drop from Truck to Hopper (8)	PM	0.35	0.58
		PM_{10}	0.17	0.28
		$PM_{2.5}$	0.03	0.04
1-FE-19	Finish Mill Additive Hopper FM#1 (8)	PM	0.02	< 0.01
		PM_{10}	0.01	< 0.01

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		$PM_{2.5}$	< 0.01	< 0.01
1-FE-20	Finish Mill Additive Hopper FM#2 (8)	PM	0.02	< 0.01
		PM_{10}	0.01	< 0.01
		$PM_{2.5}$	< 0.01	< 0.01
PC-1A	FE Loader Drop to Grizzly Feeder (8)	PM	0.04	0.02
		PM_{10}	0.02	0.01
		$PM_{2.5}$	<0.01	<0.01
2-BE-5	Limestone and Sand Feed Hopper (8)	PM	0.48	0.08
		PM_{10}	0.23	0.04
		$PM_{2.5}$	0.03	0.01
2-EE-1A	Loader Drop to Coal Hopper (8)	PM	0.06	0.02
		PM_{10}	0.03	0.01
		$PM_{2.5}$	<0.01	<0.01
2-EE-1B	Apron Feeder to Coal Delivery Belt (8)	PM	0.03	0.01
		PM_{10}	0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
1-GE-15	Drop to Hopper (8)	PM	0.06	0.26
		PM_{10}	0.03	0.12
		$PM_{2.5}$	<0.01	0.02
1-GE-16	Drop to Transfer Conveyor (8)	PM	0.04	0.17
		PM_{10}	0.02	0.08
		$PM_{2.5}$	<0.01	0.01
1-GE-17	Drop to Gypsum Conveyor (8)	PM	0.04	0.17
		PM_{10}	0.02	0.08
		$PM_{2.5}$	<0.01	0.01
1-GE-18	Drop to Hopper (8)	PM	0.04	0.17
		PM_{10}	0.02	0.08
		$PM_{2.5}$	<0.01	0.01
1-GE-19	Drop to Conveyor (8)	PM	0.04	0.17
		PM_{10}	0.02	0.08
		$PM_{2.5}$	<0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

PC-1B	FE Loader Drop to Grizzly Feeder (8)	PM	0.09	0.04
		PM_{10}	0.03	0.01
		$PM_{2.5}$	< 0.01	<0.01
CC-1	Front End Loader to Coal Hopper (8)	PM	0.01	0.05
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
CC-2	Front End Loader to Petroleum Coke Hopper (8)	PM	0.01	0.05
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
CC-3	Coal Hopper Drop to Conveyor (8)	PM	0.01	0.02
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
CC-4	Petroleum Coke Hopper Drop to Conveyor (8)	PM	0.01	0.02
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
CC-5	Conveyor to Blended Pile (8)	PM	0.02	0.10
		PM_{10}	0.01	0.05
		$PM_{2.5}$	<0.01	0.01
1-DE-2B	Kiln 1 Conditioner Tower Mud Drop to Truck (8)	PM	0.03	0.01
		PM_{10}	0.02	< 0.01
		$PM_{2.5}$	< 0.01	< 0.01
2-DE-6	Kiln 2 Conditioner Tower Mud Drop to Truck (8)	PM	0.03	< 0.01
		PM_{10}	0.02	< 0.01
		$PM_{2.5}$	< 0.01	< 0.01
Fugitive Emissions from Ammonia Tank and Outdoor Material Storage Piles (includes windblown erosion and drops to piles)				
F-NH3	Component Fugitives from storage tanks, pumps and associated piping system (8)	NH_3	0.48	2.12

Emission Sources - Maximum Allowable Emission Rates

ALTM-1 ALTM-2 ALTF-1a, -1b ALTF-2a, -2b ALTF-3 ALTF-4-1 ALTF-4-2 ALTF-5-1 ALTF-5-2 ALTF-6-2a, -2b ALTF-7-2a, -2b ALTF-8-2a, -2b	Alternative material: • FEL drop to hopper • Hopper drop to belt Alternative fuel: • Truck drop to hopper • Screw to belt feed screw • Belt feed screw to inclined belt • Inclined belt to trough belt K1 • Inclined belt to transfer belt K2 • K1 trough belt to surge bin • Transfer belt to surge bin • Surge bin to transfer screws A, B • Transfer screws to weigh belts A, B • Weigh belts to feed screws (8)	PM	0.11	0.19
		PM_{10}	0.05	0.09
		$PM_{2.5}$	0.01	0.01
OC-P-1	Outside Clay Stg (8)	PM	0.23	1.00
		PM_{10}	0.11	0.48
		$PM_{2.5}$	0.02	0.07
SP-SAND	Sand (8)	PM	0.25	1.11
		PM_{10}	0.12	0.53
		$PM_{2.5}$	0.02	0.08
LS-P-1	Raw Feed #8 (8)	PM	0.17	0.75
		PM_{10}	0.08	0.36
		$PM_{2.5}$	0.01	0.05
SP-IRN1	Iron Ore (8)	PM	0.12	0.52
		PM_{10}	0.06	0.25
		$PM_{2.5}$	0.01	0.04
1-BE-6	Slag (8)	PM	0.07	0.33
		PM_{10}	0.04	0.16
		$PM_{2.5}$	0.01	0.02
1-BE-3	Sand Stockpile (8)	PM	0.04	0.2
		PM_{10}	0.02	0.09
		$PM_{2.5}$	<0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

SP-IRN2	Iron Ore (8)	PM	0.04	0.19
		PM_{10}	0.02	0.09
		$PM_{2.5}$	<0.01	0.01
1-BE-7	Coal Pile (8)	PM	0.43	1.86
		PM_{10}	0.2	0.89
		$PM_{2.5}$	0.03	0.13
1-BE-7PC	Coke / Coke Blend Pile (8)	PM	0.1	0.43
		PM_{10}	0.05	0.21
		$PM_{2.5}$	0.01	0.03
SP-CLK-1	Clinker (8)	PM	0.1	0.44
		PM_{10}	0.05	0.21
		$PM_{2.5}$	0.01	0.03
SP-CLK-2	Clinker Pile B (8)	PM	0.1	0.44
		PM_{10}	0.05	0.21
		$PM_{2.5}$	0.01	0.03
SL-LS2	Limestone (8)	PM	0.06	0.27
		PM_{10}	0.03	0.13
		$PM_{2.5}$	<0.01	0.02
1-GE-13, 1-GE-14	Gypsum (8)	PM	0.07	0.31
		PM_{10}	0.03	0.15
		$PM_{2.5}$	0.01	0.02
SP-LS3	Limestone Crusher Feed Pile (8)	PM	0.05	0.23
		PM_{10}	0.02	0.11
		$PM_{2.5}$	<0.01	0.02
Fugitive Emissions from Material Handling of Alternate Fuels and Materials				
CAT-P-1	SynGyp Catalyst (8)	PM	0.04	0.18
		PM_{10}	0.02	0.08
		$PM_{2.5}$	<0.01	0.01
IRN-P-1, WB-P-1	Alternate Iron / Air Feed (8)	PM	0.21	0.93
		PM_{10}	0.1	0.44
		$PM_{2.5}$	0.02	0.07

Emission Sources - Maximum Allowable Emission Rates

WD-P-1	Wood Products Pile (8)	PM	0.08	0.36
		PM_{10}	0.04	0.17
		$PM_{2.5}$	0.01	0.03
BIO-P-1	Biomass Pile (8)	PM	0.08	0.36
		PM_{10}	0.04	0.17
		$PM_{2.5}$	0.01	0.03
FLTC-P-1	Filter Cake Pile (8)	PM	0.08	0.36
		PM_{10}	0.04	0.17
		$PM_{2.5}$	0.01	0.03
2-EE-4	Coal Reject Pile, Mill A (8)	PM	< 0.01	< 0.01
		PM_{10}	< 0.01	< 0.01
		$PM_{2.5}$	< 0.01	< 0.01
2-EE-5	Coal Reject Pile, Mill B (8)	PM	< 0.01	< 0.01
		PM_{10}	< 0.01	< 0.01
		$PM_{2.5}$	< 0.01	< 0.01
2-EE-6	Coal Reject Pile, Mill C (8)	PM	0.01	< 0.01
		PM_{10}	< 0.01	< 0.01
		$PM_{2.5}$	< 0.01	< 0.01
Fugitive Emissions from Planned Maintenance Activities				
MSS FUG ILE	Inherently Low emitting (ILE) Planned Maintenance Activities (8)	NO_x	0.03	0.10
		CO	0.87	3.1
		SO_2	<0.01	<0.01
		VOC	0.72	<0.01
		PM	0.79	1.21
		PM_{10}	0.70	1.09
		$PM_{2.5}$	0.22	0.39
MSS NON-ILE	Non-ILE Planned Maintenance Activities	VOC	16.3	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 (TAC) § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - particulate matter emissions, as defined in Title 30 TAC § 101.1, including PM_{10} and $PM_{2.5}$

Emission Sources - Maximum Allowable Emission Rates

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
H_2SO_4 - sulfuric acid
HCl - hydrogen chloride
NH_3 - ammonia

(4) Planned maintenance, startup, and shutdown (MSS) emissions are included.
(5) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(6) Compliance with short term (lb/hr) emission rates are based on a 24-hour rolling average.
(7) Compliance is based on a 30-day rolling average excluding periods of startup / shutdown.
(8) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(9) Source located in quarry area.

Date: December 4, 2018