Permit Number 1

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	Name (3)	Air Contaminant	Emission	Rates (9)
No. (1)		lbs/hour	TPY (4)	
5-6S	Cement Railcar Gathering Screw Conveyor 1, 2, and 3 Baghouse	PM	0.09	0.38
	Conveyor 1, 2, and 3 bagnouse	PM ₁₀	0.09	0.38
		PM _{2.5}	0.03	0.13
1-2A	Quarry Belt No. 5 Baghouse	РМ	0.26	1.13
		PM ₁₀	0.26	1.13
		PM _{2.5}	0.09	0.38
1-2B	Quarry Belt No. 4 Baghouse	РМ	0.26	1.13
		PM ₁₀	0.26	1.13
		PM _{2.5}	0.09	0.38
1-2C	Quarry Belt No. 3 Baghouse	РМ	0.26	1.13
		PM ₁₀	0.26	1.13
		PM _{2.5}	0.09	0.38
1-2E1	Stamler Discharge Belt (5)	РМ	0.06	0.09
		PM ₁₀	0.03	0.04
		PM _{2.5}	<0.01	0.01
1-2F	No. 7 Quarry Belt Dust Collector	РМ	0.26	1.13
		PM ₁₀	0.26	1.13
		PM _{2.5}	0.09	0.38
1-9A and 1-9B	Iron Source Stockpile With Truck Unloading (5)	РМ	0.05	0.20
	Omoduling (5)	PM ₁₀	0.02	0.10
		PM _{2.5}	<0.01	0.02
1-10	Iron Source Hopper (5)	PM	0.05	0.02

1	1			
		PM ₁₀	0.03	0.01
		PM _{2.5}	<0.01	<0.01
1-11A	Iron Source Conveyor 1 (5)	РМ	0.05	0.02
		PM ₁₀	0.03	0.01
		PM _{2.5}	<0.01	<0.01
1-11B	Iron Source Conveyor 1 (5)	РМ	0.05	0.02
		PM ₁₀	0.03	0.01
		PM _{2.5}	<0.01	<0.01
1-12	Iron Source Handling Baghouse	РМ	0.43	1.88
		PM ₁₀	0.43	1.88
		PM _{2.5}	0.14	0.63
1-16A1	Iron Source Silo 3 to Iron Source Silo 3 Weigh Belt	РМ	<0.01	<0.01
	Silo o Weigh Beit	PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
1-16A2	Iron Source Silo 3 Weigh Belt to Iron Source Drag Conveyor	РМ	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
444.DC2	Iron Source Drag Conveyor to Kiln Riser	РМ	<0.01	<0.01
	Kisei	PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
1-18	Quarry Fixed Conveyor No. 3 Baghouse	РМ	0.27	1.20
	baynouse	PM ₁₀	0.27	1.20
		PM _{2.5}	0.09	0.40
1-19	Limestone Day Tank and Quarry Conveyor No. 1 Baghouse	PM	0.27	1.20
	Conveyor No. 1 Daynouse	PM ₁₀	0.27	1.20
		PM _{2.5}	0.09	0.40
1-20	Limestone Belts 2A (5)	РМ	0.02	0.06

		PM ₁₀	0.01	0.03
		PM _{2.5}	<0.01	<0.01
1-22	Limestone Belts 3A (5)	PM	0.02	0.06
		PM ₁₀	0.01	0.03
		PM _{2.5}	<0.01	<0.01
1-24, 1-24A, and 1-24B	Stamler Feeder (5)	РМ	0.96	1.50
		PM ₁₀	0.43	0.68
		PM _{2.5}	0.04	0.06
1-21	Limestone Belt No. 2 Baghouse	РМ	0.09	0.38
		PM ₁₀	0.09	0.38
		PM _{2.5}	0.03	0.13
1-23	Limestone Belt No. 3 Baghouse	PM	0.09	0.38
		PM ₁₀	0.09	0.38
		PM _{2.5}	0.03	0.13
1-25	Roll Crusher and Quarry Belt No. 6 Baghouse	PM	0.51	2.25
		PM ₁₀	0.51	2.25
		PM _{2.5}	0.17	0.75
2-6A	CKD Pugmill (5)	PM	0.09	0.13
		PM ₁₀	0.04	0.06
		PM _{2.5}	0.01	0.01
2-6B	CKD Pugmill (5)	PM	0.01	0.02
		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	<0.01
3-15	Clinker Reclaim Conveyor No. 6 Baghouse	РМ	0.17	0.75
	Daynouse	PM ₁₀	0.17	0.75
		PM _{2.5}	0.06	0.25
5-2A	Silo No. 3 Baghouse	РМ	0.81	3.54

	1		0.01	0 = 1
		PM ₁₀	0.81	3.54
		PM _{2.5}	0.27	1.18
27	Clinker Stacker and Stacking Operations Baghouse	PM	0.13	0.56
	Operations Bagineass	PM ₁₀	0.13	0.56
		PM _{2.5}	0.04	0.19
F-CSB	Clinker Storage Building (5)	PM	0.01	0.04
		PM ₁₀	<0.01	0.02
		PM _{2.5}	<0.01	<0.01
F-MB1	Main Bldg Fug (5)	PM	0.10	0.44
		PM ₁₀	0.05	0.21
		PM _{2.5}	0.01	0.03
F-MB1A	Main Bldg Fug (No. 1 and 2 Raw Mill Conveyors) (5)	PM	0.04	0.13
		PM ₁₀	0.02	0.06
		PM _{2.5}	<0.01	0.01
26	Finish Mill Collection Belt 1 C-26 Dust Collector (5)	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
6-1	Railcar Unloading Hopper (5)	PM	0.04	0.06
		PM ₁₀	0.02	0.03
		PM _{2.5}	<0.01	<0.01
6-2	Drop from Conveyor to Stack Conveyor (5)	PM	0.07	0.07
	Conveyor (3)	PM ₁₀	0.03	0.03
		PM _{2.5}	<0.01	0.01
6-3, 6-4A, 6-4B, 6-4C, and 6-4D	Solid Fuel Stock Pile with Material Transfer and Movement (5)	PM	0.36	1.56
, and 0-4D	Transier and Movement (3)	PM ₁₀	0.18	0.78
		PM _{2.5}	0.03	0.12
6-5A	East Transfer from Stock Pile to Reclaim Hopper (5)	PM	0.01	0.04

		DM	0.01	0.02
		PM ₁₀	0.01	0.02
		PM _{2.5}	<0.01	<0.01
6-5B	West Transfer from Stock Pile to Reclaim Hopper (5)	PM	0.01	0.04
		PM ₁₀	0.01	0.02
		PM _{2.5}	<0.01	<0.01
6-6A	East Drop from Reclaim Hopper to Conveyor (5)	РМ	0.01	0.02
	Conveyor (o)	PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	<0.01
6-6B	West Drop from Reclaim Hopper to Conveyor (5)	РМ	0.01	0.02
	Conveyor (3)	PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	<0.01
6-6C	East Drop from Hopper Conveyor to Conveyor Crusher (5)	PM	0.01	0.04
	Conveyor Crusher (3)	PM ₁₀	0.01	0.02
		PM _{2.5}	<0.01	<0.01
6-6D	West Drop from Hopper Conveyor to Conveyor Crusher (5)	РМ	0.01	0.04
		PM ₁₀	0.01	0.02
		PM _{2.5}	<0.01	<0.01
6-6E, 6-7, and 6-8	Coal Crusher and Drops (5)	РМ	0.18	0.52
0-8		PM ₁₀	0.08	0.24
		PM _{2.5}	0.01	0.02
6-9	Drop to Day Tank (5)	РМ	0.02	0.05
		PM ₁₀	0.01	0.02
		PM _{2.5}	<0.01	<0.01
6-10	Solid Fuel Day Tank Conveyor	PM	<0.01	0.02
	Transfer Points (5)	PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	<0.01
23	Railcar Unloading Baghouse	PM	0.51	2.25

		PM ₁₀	0.51	2.25
		PM _{2.5}	0.17	0.75
32	CKD Tank 1 Baghouse	РМ	0.26	1.13
		PM ₁₀	0.26	1.13
		PM _{2.5}	0.09	0.38
33	CKD Tank 2 Baghouse	РМ	0.26	1.13
		PM ₁₀	0.26	1.13
		PM _{2.5}	0.09	0.38
4	Clinker Elevator 1, Silos 1 and 2 Baghouse	РМ	0.69	3.00
	bagnouse	PM ₁₀	0.69	3.00
		PM _{2.5}	0.23	1.00
8	Clinker Elevator 2, Silos 21 and 22	РМ	0.69	3.00
	Baghouse	PM ₁₀	0.69	3.00
		PM _{2.5}	0.23	1.00
30	Finish Mill Collection Belt 1 Baghouse	РМ	0.16	0.70
	Bagriouse	PM ₁₀	0.16	0.70
		PM _{2.5}	0.05	0.23
28	Finish Mill Collection Belt 2 Baghouse	РМ	0.13	0.56
	Bagriouse	PM ₁₀	0.13	0.56
		PM _{2.5}	0.04	0.19
29	Finish Mill Collection Belt 2 C-29 Baghouse	РМ	0.17	0.75
	bagnouse	PM ₁₀	0.17	0.75
		PM _{2.5}	0.06	0.25
5	Finish Mill 1 Baghouse	PM	4.29	18.77
		PM ₁₀	4.29	18.77
		PM _{2.5}	1.43	6.26
5 and 9	Finish Mill 1 and 2 Baghouses	VOC	3.54	9.72

9	Finish Mill 2 Baghouse	514	4.00	40.77
Э	FIIIISII WIIII Z DayIIUUSE	PM	4.29	18.77
		PM ₁₀	4.29	18.77
		PM _{2.5}	1.43	6.26
10	Cement Silo 1 Baghouse	PM	0.95	4.14
		PM ₁₀	0.95	4.14
		PM _{2.5}	0.32	1.38
11	Cement Silo 2 Baghouse	РМ	0.95	4.14
		PM ₁₀	0.95	4.14
		PM _{2.5}	0.32	1.38
24	Cement Loading (Rail) Baghouse	РМ	0.17	0.75
		PM ₁₀	0.17	0.75
		PM _{2.5}	0.06	0.25
25	Cement Loading (Truck) Baghouse	PM	0.17	0.75
		PM ₁₀	0.17	0.75
		PM _{2.5}	0.06	0.25
35	Cement Loading (Special) Baghouse	PM	0.17	0.75
		PM ₁₀	0.17	0.75
		PM _{2.5}	0.06	0.25
1-6A	Purchase Material Outside Hopper	PM	0.23	0.58
	(5)	PM ₁₀	0.11	0.28
		PM _{2.5}	0.02	0.04
1-6A1	Purchase Material Incline Conveyor	PM	0.03	0.09
	1 (5)	PM ₁₀	0.02	0.04
		PM _{2.5}	<0.01	0.01
1-6B1	Purchase Material Incline Conveyor	РМ	0.03	0.09
	1 (5)	PM ₁₀	0.02	0.04
		PM _{2.5}	<0.01	0.01

1-6B	Purchase Material Storage Belt (5)	PM	0.03	0.09
		PM ₁₀	0.02	0.04
		PM _{2.5}	<0.01	0.01
F-RM1	Raw Material Bldg (5)	PM	0.07	0.14
		PM ₁₀	0.03	0.06
		PM _{2.5}	<0.01	0.01
F-RM2	Raw Material Bldg (5)	PM	0.08	0.29
		PM ₁₀	0.04	0.14
		PM _{2.5}	0.01	0.02
2-7A, 2-7B, and 2-7C	Cement Kiln Dust Handling and Disposal (5)	PM	1.10	4.82
	Disposal (5)	PM ₁₀	0.55	2.41
		PM _{2.5}	0.08	0.36
3-4D1 and 3-4E1	Transfer to Clinker Elevators 1 and 2 (5)	PM	1.54	5.62
		PM ₁₀	0.73	2.66
		PM _{2.5}	0.11	0.40
1-6C	Gypsum Silo 1 Baghouse	PM	0.13	0.56
		PM ₁₀	0.13	0.56
		PM _{2.5}	0.04	0.19
1-6D	Gypsum Silo 2 Baghouse	PM	0.13	0.57
		PM ₁₀	0.13	0.57
		PM _{2.5}	0.04	0.19
1-4A and 1-4B	Sand Stockpile with truck unloading (5)	PM	0.14	0.60
		PM ₁₀	0.07	0.30
		PM _{2.5}	0.01	0.05
1-8A and 1-8B	Gypsum Stockpile with truck unloading (5)	PM	0.41	1.81
	unioading (3)	PM ₁₀	0.21	0.90
		PM _{2.5}	0.03	0.14

3-10 and 3-10A	Outdoor Clinker Stockpile with	PM	0.28	1.20
	unloading (5)	PM ₁₀	0.14	0.60
		PM _{2.5}	0.02	0.09
443.SK1	Reconstructed No. 3 Cement Kiln, Dryer/Crusher,	PM (filterable)	2.60	9.49
	Precalciner,	PM (total)	45.83	167.29
	Preheater Cyclone, and Precalciner Cyclone	PM ₁₀ (filterable)	2.18	7.97
		PM ₁₀ (total)	45.42	165.77
		PM _{2.5} (filterable)	1.17	4.27
		PM _{2.5} (total)	44.40	162.07
		SO ₂	1650.00	189.80
		NO _x	500.00	711.75
		СО	300.00	581.26
		VOC	26.39 (8)	65.48
		H ₂ SO ₄	10.47	38.22
		NH ₃	17.37 (7)	76.10
		Pb	0.06	0.25
		Hg	<0.01 (6)	<0.01
44B.SK1	Solid Fuel Mill, Clinker Cooler, and Regenerative Thermal Oxidizer	РМ	2.03	8.87
		PM ₁₀	2.03	8.87
		PM _{2.5}	0.81	3.55
		SO ₂	<0.01	0.01
		NO _x	0.49	2.15
		СО	0.41	1.80
		VOC	0.22	0.96
44B.BF4	Pulverized Fuel Bin A	РМ	0.04	0.15
		PM ₁₀	0.04	0.15
		PM _{2.5}	0.02	0.08

44B.BF5	Pulverized Fuel Bin B	РМ	0.04	0.15
		PM ₁₀	0.04	0.15
		PM _{2.5}	0.02	0.08
6-15	Solid Fuel Transfer Solid Fuel Day Tank Conveyors to BC050 and Solid	PM	0.01	0.03
	Fuel Transfer BC050 to BC080	PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	<0.01
FuelMillBldg	Solid Fuel Transfer BC080 to Solid Fuel Mill	PM	<0.01	0.01
	i dei iviiii	PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	<0.01
449.BF1/449.BF2	Clinker Transfer Baghouse Stack	PM	0.16	0.70
		PM ₁₀	0.16	0.70
		PM _{2.5}	0.08	0.35
443.BF2	CKD Transfer Baghouse Stack	PM	0.11	0.49
		PM ₁₀	0.11	0.49
		PM _{2.5}	0.06	0.24
EG1.SK1	Emergency Diesel Generator	PM	0.20	0.05
		PM ₁₀	0.20	0.05
		PM _{2.5}	0.20	0.05
		SO ₂	0.01	<0.01
		NO _x	3.95	0.99
		СО	3.46	0.86
		VOC	0.32	0.08
3-19	Clinker Transport Loading (outside	PM	0.06	0.01
	pile)	PM ₁₀	0.03	<0.01
		PM _{2.5}	<0.01	<0.01
F-RM4	Clinker Transfer to Inside Pile (RM Building)	PM	0.01	<0.01
	Dunully)	PM ₁₀	<0.01	<0.01

		PM _{2.5}	<0.01	<0.01
1-29	Limestone Bin Dust Collector	РМ	0.13	0.56
		PM ₁₀	0.13	0.56
		PM _{2.5}	0.04	0.19
1-30	Limestone Transfer onto Finish Mill Collection Belt 1 Baghouse	PM	0.09	0.38
	Collection Belt 1 Bagnouse	PM ₁₀	0.09	0.38
		PM _{2.5}	0.03	0.13
1-31	Limestone Transfer onto Finish Mill Collection Belt 2 Baghouse	PM	0.11	0.47
	Collection Belt 2 Bagnouse	PM ₁₀	0.11	0.47
		PM _{2.5}	0.04	0.16
6-11	Reserve Solid Fuel Transfer Point (at Main Stockpile)	PM	0.07	<0.01
	(at Main Stockpile)	PM ₁₀	0.04	<0.01
		PM _{2.5}	0.01	<0.01
6-13	Reserve Solid Fuel Reclamation Transfer Point (at Reserve Stockpile)	PM	0.07	<0.01
		PM ₁₀	0.04	<0.01
		PM _{2.5}	0.01	<0.01
6-14	Reserve Solid Fuel Reclamation Transfer Point (at Main Stockpile)	PM	0.07	<0.01
	Transier Fornt (at Main Stockpile)	PM ₁₀	0.04	<0.01
		PM _{2.5}	0.01	<0.01
6-12	Reserve Solid Fuel Stockpile	PM	0.19	0.83
		PM ₁₀	0.10	0.42
		PM _{2.5}	0.01	0.06
7-5	Bulk Tank-East (when storing SNCR reagent)	VOC (urea)	0.29	0.01
	reagenty	NH ₃	<0.01	<0.01
7-8	Bulk Tank-West (when storing SNCR reagent)	VOC (urea)	0.29	0.01
	Jivor reagenty	NH ₃	<0.01	<0.01
7-4	SNCR Unloading Piping	NH ₃	0.02	0.08

7-6	SNCR Kiln Transfer Piping	NH ₃	0.10	0.42
1-33	Iron Source Stockpile	РМ	0.28	0.93
		PM ₁₀	0.14	0.46
		PM _{2.5}	0.02	0.07
Planned Mainte	enance Activities			
7-5	Bulk Tank-East and Day Tank (when storing SNCR reagent)	VOC (urea)	0.08	<0.01
	Storing Sivery reagenty	NH ₃	0.06	<0.01
7-8	Bulk Tank-West and Day Tank (when storing SNCR reagent)	VOC (urea)	0.08	<0.01
	(when storing Sivery reagenty	NH ₃	0.06	<0.01
7-1-1	Bulk Tank-East (when storing SNCR reagent)	VOC (urea)	<0.01	<0.01
		NH ₃	0.08	0.01
7-1-3	Bulk Tank-West (when storing SNCR reagent)	VOC (urea)	<0.01	<0.01
		NH ₃	0.08	0.01
7-7	Day Tank	NH ₃	0.01	<0.01
MSSFUG1	Inherently Low Emitting (ILE) Planned Maintenance Activities	NO _x	<0.01	<0.01
	Flamed Maintenance Activities	со	0.02	<0.01
		SO ₂	<0.01	<0.01
		PM	0.54	0.09
		PM ₁₀	0.25	0.04
		PM _{2.5}	0.04	0.01
		VOC	0.18	<0.01
MSSFUG2	Non-ILE Planned Maintenance Activities	PM	0.90	0.39
	/ lottvitics	PM ₁₀	0.90	0.39
		PM _{2.5}	0.46	0.20
	·	•	•	•

⁽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

SO₂ - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as

represented

PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as

represented

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

 NH_3 - ammonia H_2SO_4 - sulfuric acid

Pb - lead Hg - mercury

- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) The hourly Hg emission rates apply based on the 30-operating day rolling average hourly emission rate.
- (7) The hourly NH₃ emission rate is applicable as a 24-hour rolling average.
- (8) The hourly VOC emission rates apply based on the 12-month rolling average hourly emission rate.
- (9) Planned maintenance, startup, and shutdown (MSS) emissions are included.

Date: February 11, 2016