Emission Sources - Maximum Allowable Emission Rates

Permit Number 5296 and PSDTX24M2

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 (5)	
			lbs/hour	TPY (4)
GBH-1	Kiln No. 1 Baghouse (6)	PM	13.69	59.95
		PM_{10}	13.69	59.95
		$PM_{2.5}$	10.77	47.19
		NO_x (8)	358.00	839.57
		SO_2 (8)	75.00	237.62
		VOC (8)	20.00	87.60
		CO (8)	200.00	876.00
		H_2SO_4	7.50	32.85
		HCl (8)	5.82	25.51
		NH_3 (8)	5.10	22.34
		Pb	0.01	0.02
GID34EX	Kiln No. 2 Stack	PM	22.00	96.40
		PM_{10}	10.00	43.80
		$PM_{2.5}$	10.00	43.80
		NO_x (8)	446.40	354.12
		SO_2 (8)	87.00	252.95
		VOC (8)	15.10	66.10
		CO (8)	95.90	420.00
		H_2SO_4	0.40	1.60
		NH_3 (8)	5.60	24.53

KILN3	Kiln No. 3	PM	41.25	173.25
		PM_{10}	41.25	173.25
		$PM_{2.5}$	38.50	161.70
		NO_x (8)	206.25	866.25
		SO_2 (8)	55.00	231.00
		VOC (8)	13.95	58.57
		CO (8)	206.25	866.25
		H_2SO_4	1.31	5.49
		HCl (8)	1.74	7.32
		NH_3 (8)	13.75	57.75
		Hg (8)	0.01	0.01
EEF-8	Air Separator Baghouse	PM	2.83	12.39
		PM_{10}	2.83	12.39
		$PM_{2.5}$	0.71	3.10
		NO_x	3.92	17.18
		SO_2	0.02	0.10
		VOC	0.22	0.94
		CO	3.29	14.43
CEF-1	Crusher Baghouse	PM	1.29	5.40
		PM_{10}	1.29	5.40
		$PM_{2.5}$	0.32	1.35
CEF-2	Drop to Crusher Hopper (7)	PM	1.68	2.45
		PM_{10}	0.79	1.16
		$PM_{2.5}$	0.12	0.18
CEF-3	Hopper Drop to Crusher (7)	PM	3.35	4.90
		PM_{10}	1.59	2.32
		$PM_{2.5}$	0.24	0.35
CEF-4	Pre-Raw Mill Crusher Baghouse	PM	0.10	0.45
		PM_{10}	0.10	0.45
		$PM_{2.5}$	0.03	0.11

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DEF-1	Transfer Conveyor Baghouse	PM	0.45	1.95
		PM_{10}	0.45	1.95
		$PM_{2.5}$	0.11	0.49
DEF-2	Surge Bin Baghouse	PM	0.18	0.79
		PM_{10}	0.18	0.79
		$PM_{2.5}$	0.05	0.20
EEF-1	Air Separator Baghouse	PM	1.85	7.78
		PM_{10}	1.85	7.78
		$PM_{2.5}$	0.46	1.94
		NO_x	3.92	17.18
		CO	3.29	14.43
		SO_2	0.02	0.10
		VOC	0.22	0.94
31EF-1	Coal Bin #1 Baghouse	PM	0.09	0.38
		PM_{10}	0.09	0.38
		$PM_{2.5}$	0.02	0.09
31EF-2	Coal Bin #2 Baghouse	PM	0.09	0.38
		PM_{10}	0.09	0.38
		$PM_{2.5}$	0.02	0.09
31EF-3	New Coal Mill Stack	PM	1.03	4.51
		PM_{10}	1.03	4.51
		$PM_{2.5}$	0.26	1.13
EEF-11	#5 Separator Baghouse	PM	2.77	12.12
		PM_{10}	2.77	12.12
		$PM_{2.5}$	0.69	3.03
EEF-12	#5 Finish Mill Baghouse	PM	1.21	5.29
		PM_{10}	1.21	5.29
		$PM_{2.5}$	0.30	1.32
		VOC	0.09	0.41

Emission Sources - Maximum Allowable Emission Rates

EEF-13	Transfer Tunnel Baghouse	PM	0.30	1.31
		PM_{10}	0.30	1.31
		$PM_{2.5}$	0.08	0.33
EEF-14	Transfer Tunnel Baghouse	PM	0.30	1.31
		PM_{10}	0.30	1.31
		$PM_{2.5}$	0.08	0.33
EEF-2	#2 Separator Baghouse	PM	1.85	8.11
		PM_{10}	1.85	8.11
		$PM_{2.5}$	0.46	2.03
EEF-3	Raw Mill #1 Baghouse	PM	0.62	2.59
		PM_{10}	0.62	2.59
		$PM_{2.5}$	0.15	0.65
EEF-4	#2 Finish Mill Baghouse	PM	0.62	2.70
		PM_{10}	0.62	2.70
		$PM_{2.5}$	0.15	0.68
		VOC	0.08	0.35
EEF-5	#3 Finish Mill Baghouse	PM	1.29	5.63
		PM_{10}	1.29	5.63
		$PM_{2.5}$	0.32	1.41
		VOC	0.04	0.18
EEF-6	#3 Separator Baghouse	PM	0.69	3.02
		PM_{10}	0.69	3.02
		$PM_{2.5}$	0.17	0.75
EEF-9	Raw Mill #4 Baghouse	PM	1.03	4.51
		PM_{10}	1.03	4.51
		$PM_{2.5}$	0.26	1.13
FC-1	Quarry Truck Loading (7)	PM	11.18	16.32
		PM_{10}	5.29	7.72
		$PM_{2.5}$	0.80	1.17

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FCKD-1	CKD Drop to Haul Truck (7)	PM	< 0.01	< 0.01
		PM_{10}	< 0.01	< 0.01
		$PM_{2.5}$	< 0.01	< 0.01
FCLB-2	Cooler Drop to Drag Chain (7)	PM	0.22	0.94
		PM_{10}	0.10	0.45
		$PM_{2.5}$	0.02	0.07
FCLB-4	#2 Cooler System Drops to Clinker Belt (7)	PM	0.22	1.74
		PM_{10}	0.10	0.82
		$PM_{2.5}$	0.02	0.12
FCLSP-3	Clinker Outside Storage Pile (7)	PM	0.13	0.57
		PM_{10}	0.06	0.27
		$PM_{2.5}$	0.01	0.04
FCLSP-3A	Clinker Under Shed Storage Pile (7)	PM	0.03	0.14
		PM_{10}	0.02	0.07
		$PM_{2.5}$	<0.01	0.01
FCLT-1	Clinker Building Tunnel Fugitives (7)	PM	0.15	0.04
		PM_{10}	0.07	0.02
		$PM_{2.5}$	0.01	<0.01
FCP-1	Railcar Coal Unloading Drop (7)	PM	0.06	0.04
		PM_{10}	0.03	0.02
		$PM_{2.5}$	<0.01	<0.01
FCP-1B	Rail Hopper Drop to Belt (7)	PM	0.06	0.04
		PM_{10}	0.03	0.02
		$PM_{2.5}$	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

FCP-2	Belt Transfer Drop (7)	PM	0.21	0.14
		PM_{10}	0.10	0.07
		$PM_{2.5}$	0.01	0.01
FCP-5	Drop to Conveyor Hopper (7)	PM	0.21	0.14
		PM_{10}	0.10	0.07
		$PM_{2.5}$	0.01	0.01
FCP-6	Hopper Drop to Conveyor (7)	PM	0.21	0.14
		PM_{10}	0.10	0.07
		$PM_{2.5}$	0.01	0.01
FCP-7	Conveyor Transfer (7)	PM	0.21	0.14
		PM_{10}	0.10	0.07
		$PM_{2.5}$	0.01	0.01
FCPT	Truck Unloading Drop (7)	PM	0.64	0.93
		PM_{10}	0.30	0.44
		$PM_{2.5}$	0.05	0.07
FCPW-1	Coal Piles Windblown Fugitive (7)	PM	0.05	0.22
		PM_{10}	0.02	0.10
		$PM_{2.5}$	<0.01	0.02
FEF-1	Blending Silos Baghouse	PM	1.29	5.63
		PM_{10}	1.29	5.63
		$PM_{2.5}$	0.32	1.41
FEF-2	Feed System Baghouse	PM	0.51	2.25
		PM_{10}	0.51	2.25
		$PM_{2.5}$	0.13	0.56
FEF-3	Kiln #3 Kiln Feed Fan #1	PM	0.03	0.14
		PM_{10}	0.03	0.14
		$PM_{2.5}$	0.01	0.03

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FEF-4	Kiln #3 Kiln Feed Fan #2	PM	0.21	0.90
		PM_{10}	0.21	0.90
		$PM_{2.5}$	0.05	0.23
FEF-5	Kiln #3 Kiln Feed Fan #3	PM	0.13	0.56
		PM_{10}	0.13	0.56
		$PM_{2.5}$	0.03	0.14
FGSP-1	Additive Rail Unloading Drop (7)	PM	0.15	0.21
		PM_{10}	0.07	0.10
		$PM_{2.5}$	0.01	0.01
FGSP-3	Loader Drop to Feeder Piles (7)	PM	0.17	0.07
		PM_{10}	0.08	0.03
		$PM_{2.5}$	0.01	<0.01
FGSP1-T	Gypsum Truck Unloading (7)	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
FLO-1	Truck and Rail Loadout Fugitive (7)	PM	0.19	0.28
		PM_{10}	0.09	0.13
		$PM_{2.5}$	0.01	0.02
FLO-2	Bulk Truck Loading Fugitive (7)	PM	1.73	2.52
		PM_{10}	0.82	1.19
		$PM_{2.5}$	0.12	0.18

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FLO-3	Bulk Rail Unloading Fugitive (7)	PM	0.73	2.52
		PM_{10}	0.34	1.19
		$PM_{2.5}$	0.05	0.18
FMS-1	Raw Storage Wind Blown Fug. (7)	PM	0.72	3.17
		PM_{10}	0.34	1.50
		$PM_{2.5}$	0.05	0.23
FMS-1A	Raw Storage Building (7)	PM	0.43	1.90
		PM_{10}	0.21	0.90
		$PM_{2.5}$	0.03	0.14
FMS-3	Loader Drop to Aux. Belt Hopper (7)	PM	0.07	0.10
		PM_{10}	0.03	0.05
		$PM_{2.5}$	<0.01	0.01
FMS-4	Raw Building Tunnel Fugitives (7)	PM	0.44	1.63
		PM_{10}	0.21	0.77
		$PM_{2.5}$	0.03	0.12
FMS-5	Limestone Shed Windblown Fugitive (7)	PM	0.03	0.15
		PM_{10}	0.02	0.07
		$PM_{2.5}$	<0.01	0.01
FMSSP-1	Mill Scale/Iron ore Wind Blown Fugitives (7)	PM	0.10	0.42
		PM_{10}	0.05	0.20
		$PM_{2.5}$	0.01	0.03
FMSSP-2	Mill Scale / Iron Unloading Fugitives (7)	PM	0.08	0.12
		PM_{10}	0.04	0.06
		$PM_{2.5}$	0.01	0.01
FMSSP-3	Loader Drop to Storage Piles (7)	PM	0.03	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

FMSSP-4	Loader Drop to Feeder Piles (7)	PM	0.03	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
FMSSP-5	Mill Scale Feeder Drop (7)	PM	0.03	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
FMSSP-T	Mill Scale Truck Unloading (7)	PM	0.02	0.03
		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
FQ-CKD	CKD Storage and Drop in Quarry (7)	PM	0.31	1.37
		PM_{10}	0.15	0.65
		$PM_{2.5}$	0.02	0.10
FRB-1	Crusher Drop to Belt (7)	PM	1.12	1.63
		PM_{10}	0.53	0.77
		$PM_{2.5}$	0.08	0.12
FRB-2	Crusher Belt Transfer Point (7)	PM	0.50	0.73
		PM_{10}	0.24	0.35
		$PM_{2.5}$	0.04	0.05
FRB-3	Raw Materials Drop to Piles (7)	PM	0.14	0.11
		PM_{10}	0.05	0.04
		$PM_{2.5}$	0.01	0.01
FRB-4	Aux. Hopper Drop to Belt (7)	PM	0.03	0.05
		PM_{10}	0.02	0.02
		$PM_{2.5}$	<0.01	<0.01
FRB-5	Drop to Traveling Belt (7)	PM	1.12	1.63
		PM_{10}	0.53	0.77
		$PM_{2.5}$	0.08	0.12

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FRB-6	Raw Materials Drop to LS Building (7)	PM	<0.01	0.07
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
FSASP-1	Sand Pile Wind Blown Fugitives (7)	PM	0.25	1.09
		PM_{10}	0.12	0.52
		$PM_{2.5}$	0.02	0.08
FSASP-2	Sand Drop to Pile (7)	PM	0.01	0.02
		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
FSASP-7	Sand Feeder Belt Drop (7)	PM	0.01	0.02
		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
FSASP-8	Sand Loader Drop to Feeder Pile	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
GEF-11	Belt Transfer Baghouse	PM	0.27	1.20
		PM_{10}	0.27	1.20
		$PM_{2.5}$	0.07	0.30
GEF-12	Finish Mix System Baghouse	PM	0.27	1.20
		PM_{10}	0.27	1.20
		$PM_{2.5}$	0.07	0.30
GEF-13	Finish Mix System Baghouse	PM	1.29	5.63
		PM_{10}	1.28	5.61
		$PM_{2.5}$	0.32	1.40
GEF-14	Dense Phase Baghouse	PM	0.20	0.86
		PM_{10}	0.20	0.86
		$PM_{2.5}$	0.05	0.22

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GEF-15	Bucket Elevator No. 1	PM	0.12	0.53
		PM_{10}	0.12	0.53
		$PM_{2.5}$	0.03	0.13
GEF-16	Bucket Elevator No. 2	PM	0.12	0.51
		PM_{10}	0.12	0.51
		$PM_{2.5}$	0.03	0.13
GEF-17	Bucket Elevator No. 3	PM	0.15	0.63
		PM_{10}	0.15	0.63
		$PM_{2.5}$	0.04	0.16
GEF-18	Off-Spec Clinker Storage Silo	PM	0.31	1.35
		PM_{10}	0.31	1.35
		$PM_{2.5}$	0.08	0.34
GEF-19	Clinker Storage Silo Dust Collector Fan #1	PM	0.09	0.38
		PM_{10}	0.09	0.38
		$PM_{2.5}$	0.02	0.10
GEF-20	Clinker Storage Silo Dust Collector Fan #2	PM	0.12	0.52
		PM_{10}	0.12	0.52
		$PM_{2.5}$	0.03	0.13
GEF-21	Clinker Storage Silo Dust Collector Fan #3	PM	0.15	0.65
		PM_{10}	0.15	0.65
		$PM_{2.5}$	0.04	0.16
GEF-22	Clinker Reclaim Dust Collector Fan #1	PM	0.02	0.08
		PM_{10}	0.02	0.08
		$PM_{2.5}$	<0.01	0.02
GEF-23	Clinker Reclaim Dust Collector Fan #2	PM	0.02	0.08
		PM_{10}	0.02	0.08
		$PM_{2.5}$	<0.01	0.02

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GEF-24	Clinker Reclaim Dust Collector Fan #3	PM	0.02	0.08
		PM_{10}	0.02	0.08
		$PM_{2.5}$	<0.01	0.02
GEF-25	Clinker Reclaim Dust Collector Fan #4	PM	0.13	0.54
		PM_{10}	0.13	0.54
		$PM_{2.5}$	0.03	0.14
GEF-26	Kiln # 3 Cooler Discharge	PM	0.28	1.24
		PM_{10}	0.28	1.24
		$PM_{2.5}$	0.07	0.31
GEF-27	Kiln #3 Clinker Transfer Tower	PM	0.09	0.41
		PM_{10}	0.09	0.41
		$PM_{2.5}$	0.02	0.10
GEF-28	Kiln #3 Clinker Diverter Gate	PM	0.19	0.81
		PM_{10}	0.19	0.81
		$PM_{2.5}$	0.05	0.20
GEF-3	Clinker Belt Transfer Baghouse	PM	0.51	2.25
		PM_{10}	0.51	2.25
		$PM_{2.5}$	0.13	0.56
CRC-1	Clinker Roller Crusher Feed Fan	PM	0.15	0.65
		PM_{10}	0.15	0.65
		$PM_{2.5}$	0.04	0.16
CRC-2	Clinker Roller Crusher Fan	PM	0.21	0.90
		PM_{10}	0.21	0.90
		$PM_{2.5}$	0.05	0.23
CRC-3	Clinker Roller Crusher Discharge Fan	PM	0.15	0.65
		PM_{10}	0.15	0.65
		$PM_{2.5}$	0.04	0.16

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GEF-9	CKD Bin Baghouse	PM	0.26	1.13
		PM_{10}	0.26	1.13
		$PM_{2.5}$	0.06	0.28
GID5EX/GID6EX	#3 Clinker Cooler Stack	PM	2.75	11.55
		PM_{10}	2.10	8.80
		$PM_{2.5}$	1.10	4.62
GID6EX	#2 Clinker Cooler Stack	PM	6.27	27.44
		PM_{10}	4.76	20.86
		$PM_{2.5}$	2.51	10.98
KBH-1	Airslide KAS3 Baghouse	PM	0.21	0.94
		PM_{10}	0.21	0.94
		$PM_{2.5}$	0.05	0.23
KBH-12	Rich Mortar Spout Baghouse	PM	0.15	0.65
		PM_{10}	0.15	0.65
		$PM_{2.5}$	0.04	0.16
KBH-13	Truck Loading Spout Baghouse	PM	0.17	0.75
		PM_{10}	0.17	0.75
		$PM_{2.5}$	0.04	0.19
KBH-8	Airslide to Truck Loadout	PM	0.12	0.53
		PM_{10}	0.12	0.53
		$PM_{2.5}$	0.03	0.13
KBH-9	Cement Silos & Cement Unloading Baghouse	PM	0.23	0.12
		PM_{10}	0.23	0.12
		$PM_{2.5}$	0.06	0.03
KEF-10	Top of Silo Equipment Baghouse	PM	0.27	1.16
		PM_{10}	0.26	1.14
		$PM_{2.5}$	0.06	0.28

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KEF-11	Top of Silo Equipment Baghouse	PM	0.26	1.13
		PM_{10}	0.26	1.13
		$PM_{2.5}$	0.06	0.28
KEF-14	Cement Silo #3 Baghouse	PM	0.07	0.30
		PM_{10}	0.07	0.30
		$PM_{2.5}$	0.02	0.08
KEF-15	Cement Silo #4 Baghouse	PM	0.07	0.30
		PM_{10}	0.07	0.30
		$PM_{2.5}$	0.02	0.08
KBH-18	Cement Loadout Bins	PM	0.17	0.75
		PM_{10}	0.17	0.75
		$PM_{2.5}$	0.04	0.19
KBH-17	Cement Loading Spout	PM	0.03	0.14
		PM_{10}	0.03	0.14
		$PM_{2.5}$	0.01	0.03
KEF-3	Packer #2 Overflow Elevator Baghouse	PM	1.03	4.32
		PM_{10}	1.03	4.32
		$PM_{2.5}$	0.26	1.08
KEF-4	Packer #1 Overflow Elevator Baghouse	PM	1.03	4.32
		PM_{10}	1.03	4.32
		$PM_{2.5}$	0.26	1.08
KEF-5	Packer #1 Feed Elevator Baghouse	PM	0.77	3.38
		PM_{10}	0.77	3.38
		$PM_{2.5}$	0.19	0.84
KEF-6	Packer #2 Feed Elevator Baghouse	PM	0.34	1.44
		PM_{10}	0.34	1.44
		$PM_{2.5}$	0.09	0.36

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KEF-7	Truck and Railcar Loadout Baghouse	PM	0.51	2.16
		PM_{10}	0.51	2.16
		$PM_{2.5}$	0.13	0.54
SCREEN	Material Screening (7)	PM	0.02	0.02
		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
DAB-1	Dry Abrasive Blasting (7)	PM	0.04	0.07
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
DTP-1	DBC-3 Drop to Roll Crusher (7)	PM	0.11	0.38
		PM_{10}	0.05	0.18
		$PM_{2.5}$	0.01	0.03
DTP-2	Surge Bin Drop to DWB2 (7)	PM	0.09	0.38
		PM_{10}	0.04	0.18
		$PM_{2.5}$	0.01	0.03
DTP-3	DWB-2 Drop to DE-2 (7)	PM	0.09	0.38
		PM_{10}	0.04	0.18
		$PM_{2.5}$	0.01	0.03
DTP-4	Elevator DE2 Drop to DBC7 (7)	PM	0.09	0.38
		PM_{10}	0.04	0.18
		$PM_{2.5}$	0.01	0.03
FTP-1	EAS-3 Drop to FBC-1 (7)	PM	0.09	0.38
		PM_{10}	0.04	0.18
		$PM_{2.5}$	0.01	0.03
FTP-2	FBC-1 Drop to FE-1 (7)	PM	0.11	0.38
		PM_{10}	0.05	0.18
		$PM_{2.5}$	0.01	0.03

Emission Sources - Maximum Allowable Emission Rates

GTP-1	GBC-4 to GBC-13 TP (7)	PM	0.10	0.23
		PM_{10}	0.05	0.11
		$PM_{2.5}$	0.01	0.02
GTP-2	GBC-13 / GBC-20 Drop to Turn Head (7)	PM	0.10	0.23
		PM_{10}	0.05	0.11
		$PM_{2.5}$	0.01	0.02
GTP-3	GBC-14 Drop to GBC-6 (7)	PM	0.04	0.09
		PM_{10}	0.02	0.04
		$PM_{2.5}$	<0.01	0.01
EBLG-1	Building Fugitives (7) GWB-1 Drop to GBC-14 (7) GWB-2 Drop to GBC-15 (7) GWB-3 Drop to GBC-16 (7) GWB-4 Drop to GBC-15 (7)	PM	0.22	0.73
		PM_{10}	0.11	0.34
		$PM_{2.5}$	0.02	0.05
KCD-1	Bagging Machine (7)	PM	0.02	<0.01
		PM_{10}	0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
KCD-2	Rich Mortar Bagging Machine (7)	PM	0.01	<0.01
		PM_{10}	0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
FLO-4	Rich Mortar Spout (7)	PM	1.21	0.01
		PM_{10}	0.57	0.01
		$PM_{2.5}$	0.09	<0.01
ENG-5	Emergency Generator	PM	0.18	0.01
		PM_{10}	0.18	0.01
		$PM_{2.5}$	0.18	0.01
		NO_x	3.50	0.17
		CO	1.37	0.07
		VOC	0.17	0.01
		SO_2	<0.01	<0.01
		H_2SO_4	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

MSSAMTK	Ammonia Tank Vessel Maintenance MSS (7)	NH_3	1.32	0.03
MSS-CEMS	CEMS Calibration MSS Fugitives (7)	NO_x	<0.01	<0.01
		CO	<0.01	<0.01
		VOC	<0.01	<0.01
		SO_2	<0.01	<0.01
MSSFUG2	Non-Inherently Low Emitting Maintenance (7) Vacuum Truck Loading (7)	PM	0.73	1.06
		PM_{10}	0.73	1.06
		$PM_{2.5}$	0.36	0.53
MSSFUG1	Inherently Low Emitting Sitewide MSS Activities (ILE Activities) (7)	NO_x	0.02	<0.01
		CO	0.41	0.01
		PM	0.15	0.02
		PM_{10}	0.06	0.01
		$PM_{2.5}$	0.03	<0.01
		VOC	2.32	0.29
FGL-1	Additives Loader Road Emissions (7)	PM	2.70	0.15
		PM_{10}	1.20	0.67
		$PM_{2.5}$	1.20	0.67
FCLCP	Clinker Drop to Storage Building (7)	PM	0.53	2.10
		PM_{10}	0.25	1.00
		$PM_{2.5}$	0.25	1.00
FCLB-5	Drop to Traveling Belt (7)	PM	0.88	3.51
		PM_{10}	0.41	1.66
		$PM_{2.5}$	0.41	1.66
GID5EX	No. 1 Clinker Cooler Baghouse (6)	PM	3.87	16.93
		PM_{10}	3.87	16.93
		$PM_{2.5}$	3.87	16.93
FCLB-3	#1 Cooler System Drops to Clinker Belt (6) (7)	PM	0.26	0.96
		PM_{10}	0.12	0.46
		$PM_{2.5}$	0.12	0.46

Emission Sources - Maximum Allowable Emission Rates

CPT-1	Clinker Pit Drop and Storage (7)	PM	<0.01	0.02
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
FCUSP-1	Copper Slag Windblown Fugitive (7)	PM	0.12	0.53
		PM_{10}	0.06	0.25
		$PM_{2.5}$	0.01	0.04
FCUSP-3	Copper Slag Loader Drop to Feeder Pile (7)	PM	0.01	0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
FCUSP-4	Copper Slag Feed Drop to Tunnel (7)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
FGSP-5	Gypsum Windblown Fugitive (7)	PM	0.27	1.19
		PM_{10}	0.13	0.56
		$PM_{2.5}$	0.02	0.09
FUNCRH	Uncrushed Limestone Next to Crusher (7)	PM	0.12	0.51
		PM_{10}	0.05	0.24
		$PM_{2.5}$	0.01	0.04
FUGNH3	Ammonia Piping Fugitive Components (7)	NH_3	1.15	5.03
TNH3TK-1	Ammonia Storage Tank	NH_3	3.56	0.63

(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 $PM_{2.5}$, as represented
PM_{10} - 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
HCl - hydrogen chloride
NH_3 - ammonia
H_2SO_4 - sulfuric acid
Hg - mercury
Pb - lead

Emission Sources - Maximum Allowable Emission Rates

(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Planned maintenance, startup, and shutdown
(6) Kiln No. 1 and indicated emission points are authorized by this permit until such time as Kiln No. 3 begins full operation.
(7) Emission rate is an estimate and an enforceable limit. Fugitive emission compliance will be demonstrated through compliance with the applicable special condition(s) and permit application representations.
(8) 30-day rolling average.

Date: June 12, 2020

Emission Sources - Maximum Allowable Emission Rates

Permit Number GHGPSDTX110

This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions, as defined in Title 30 Texas Administrative Code § 101.1, for all sources of GHG air contaminants on the applicant's property that are authorized 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 authorized by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates
			TPY (4)
KILN3	Kiln No. 3 Stack	CO_2 (5)	1,059,154
		CH_4 (5)	50.42
		N_2O (5)	7.33
		CO_2e	1,062,600
EEF-8	Air Separator Baghouse	CO_2 (5)	20,494
		CH_4 (5)	0.39
		N_2O (5)	0.04
		CO_2e	20,516
EEF-1	Air Separator Baghouse	CO_2 (5)	20,494
		CH_4 (5)	0.39
		N_2O (5)	0.04
		CO_2e	20,516
ENG-5	Emergency Generator	CO_2 (5)	12.98
		CH_4 (5)	<0.01
		N_2O (5)	<0.01
		CO_2e	13

(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) CO_2 - carbon dioxide
N_2O - nitrous oxide
CH_4 - methane
CO_2e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015):
CO_2 (1), N_2O (298), CH_4 (25), SF_6 (22,800), HFC (various), PFC (various)
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.
(5) Emission rate is given for informational purposes only and does not constitute enforceable limit.

Date: December 6, 2017