Permit Number 6048 and PSDTX74M2

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	Emission Rates	
			lbs/hour	TPY (4)	
PS-1	Clay Crusher Baghouse	PM	0.32	1.35	
	Bagnouse	PM ₁₀	0.16	0.68	
		PM _{2.5}	0.08	0.34	
PS-2	Clay Belt Transfer Baghouse	PM	0.32	1.35	
	Bagnouse	PM ₁₀	0.16	0.68	
		PM _{2.5}	0.08	0.34	
PS-3	Raw Aeropol Cyclone	РМ	2.17	9.10	
		PM ₁₀	1.08	4.54	
		PM _{2.5}	0.54	2.28	
PS-4	Blending Silo Baghouse	РМ	1.60	6.74	
		PM ₁₀	0.80	3.37	
		PM _{2.5}	0.40	1.69	
PS-5	Rail Hopper Belt Baghouse	РМ	1.04	4.35	
		PM ₁₀	0.52	2.18	
		PM _{2.5}	0.26	1.09	
PS-6	Coal/Gypsum Belt Transfer Baghouse	РМ	0.32	1.35	
	Transier bagnouse	PM ₁₀	0.16	0.68	
		PM _{2.5}	0.08	0.34	
PS-7	Tri-Gate Diverter Baghouse	PM	0.32	1.35	
	Bagnouse	PM ₁₀	0.16	0.68	
		PM _{2.5}	0.08	0.34	
PS-8	Coal Belt Transfer Baghouse	РМ	0.56	2.36	
	Dagilouse	PM ₁₀	0.28	1.18	
		PM _{2.5}	0.14	0.59	

PS-9	Coal/Coke Silos Baghouse	РМ	0.48	2.02
	bagnouse	PM ₁₀	0.24	1.01
		PM _{2.5}	0.12	0.51
PS-10	Coal Mill Cyclone Baghouse	РМ	4.49	18.87
	bagnouse	PM ₁₀	2.25	9.43
		PM _{2.5}	1.12	4.72
PS-11	Coal Bin Passive Bag Filter	РМ	0.03	0.13
	Filler	PM ₁₀	0.02	0.07
		PM _{2.5}	0.01	0.03
PS-12	Coke Bin Passive Bag Filter	РМ	0.03	0.13
	Filler	PM ₁₀	0.02	0.07
		PM _{2.5}	0.01	0.03
PS-13	Solid Fuel Pump Feeders Baghouse	РМ	0.80	3.37
	reeders bagnouse	PM ₁₀	0.40	1.68
		PM _{2.5}	0.20	0.84
PS-14	Kiln Feed Bucket Elevator Baghouse	РМ	0.48	2.02
	Lievator Bagnouse	PM ₁₀	0.24	1.01
		PM _{2.5}	0.12	0.51
PS-15	Kiln Feed Buffer Bin Baghouse	PM	0.80	3.37
	Dagnouse	PM ₁₀	0.40	1.68
		PM _{2.5}	0.20	0.84
PS-16	Kiln No. 1 Main Baghouse (10)	PM (FH +BH) (8)	22.36	84.10
	Bagnouse (10)	PM ₁₀ (FH + BH) (8)	20.49	77.83
		PM _{2.5}	20.49	77.83
		voc	13.10	44.00
		NO _x (8)	744.00	(7)
		SO ₂ (8)	106.00	(7)
		CO (9)	772.00	(7)
		HCI	2.11	8.86

		NH ₃	1.31	5.50
PS-16A	Kiln 1 Main Bucket	РМ	0.04	0.17
	Elevator Baghouse	PM ₁₀	0.02	0.08
		PM _{2.5}	0.01	0.04
PS-19	Clinker Cooler Drag	РМ	1.11	4.68
	Chain Baghouse	PM ₁₀	0.56	2.34
		PM _{2.5}	0.28	1.17
PS-20	Kiln Line 1 Clinker	РМ	7.76	26.08
	Cooler Baghouse	PM ₁₀	5.90	19.82
		PM _{2.5}	1.94	6.52
PS-21	Clinker Loadout Bin Baghouse	РМ	0.60	2.63
	Bayriouse	PM ₁₀	0.30	1.31
		PM _{2.5}	0.15	0.66
PS-22	Clinker Silos Top Transfers Baghouse	РМ	2.23	9.36
		PM ₁₀	1.11	4.68
		PM _{2.5}	0.56	2.34
PS-23	Clinker Silo No. 1 Feeder Baghouse	РМ	0.15	0.65
	reeder bagnouse	PM ₁₀	0.08	0.33
		PM _{2.5}	0.04	0.16
PS-24	Clinker Silo No. 2 Feeder Baghouse	РМ	0.17	0.75
	reeder bagnouse	PM ₁₀	0.08	0.33
		PM _{2.5}	0.04	0.16
PS-25	Clinker Silo No. 3 North Baghouse	РМ	0.15	0.65
	North Bagnouse	PM ₁₀	0.08	0.33
		PM _{2.5}	0.04	0.16
PS-26	Clinker Silo No. 3 South Baghouse	PM	0.15	0.65
	Journ Daynouse	PM ₁₀	0.08	0.33
		PM _{2.5}	0.04	0.16
PS-27	Clinker Silo No. 4 Feeder Baghouse	PM	0.15	0.65

		PM ₁₀	0.08	0.33
		PM _{2.5}	0.04	0.16
PS-28	Clinker Silo No. 5	РМ	0.15	0.65
	Feeder Baghouse	PM ₁₀	0.08	0.33
		PM _{2.5}	0.04	0.16
PS-29	Clinker Silo No. 6	РМ	0.15	0.65
	North Baghouse	PM ₁₀	0.08	0.33
		PM _{2.5}	0.04	0.16
PS-30	Clinker Silo No. 6 South Baghouse	РМ	0.15	0.65
	South Baghouse	PM ₁₀	0.08	0.33
		PM _{2.5}	0.04	0.16
PS-31	Finish Mill Baghouse No. 1	РМ	3.58	15.05
		PM ₁₀	1.79	7.52
		PM _{2.5}	0.90	3.76
PS-32	Cement Cooler No. 1 Transfer Baghouse	РМ	0.31	1.30
		PM ₁₀	0.15	0.65
		PM _{2.5}	0.08	0.33
PS-33	Finish Mill No. 1 Separator Baghouse	РМ	0.80	3.37
		PM ₁₀	0.40	1.68
		PM _{2.5}	0.20	0.84
PS-34	Finish Mill Baghouse No. 2	PM	3.58	15.05
	140. 2	PM ₁₀	1.79	7.52
		PM _{2.5}	0.90	3.76
PS-35	Cement Cooler No. 2 Transfer Baghouse	РМ	0.31	1.30
	Transier Dayriouse	PM ₁₀	0.15	0.65
		PM _{2.5}	0.08	0.33
PS-36	Finish Mill No. 2 Separator Baghouse	РМ	0.80	3.37
	Separator Dayriouse	PM ₁₀	0.40	1.68
		PM _{2.5}	0.20	0.84

PS-37	Cement Aeropols	РМ	0.79	3.31
	Baghouse	PM ₁₀	0.39	1.66
		PM _{2.5}	0.20	0.83
PS-38	South Aeropol Transfer Baghouse	РМ	1.11	4.68
	Transier bagnouse	PM ₁₀	0.56	2.34
		PM _{2.5}	0.28	1.17
PS-39	North Silo Distribution Baghouse	РМ	0.79	3.31
	baynouse	PM ₁₀	0.20	0.83
		PM _{2.5}	0.20	0.83
PS-40	North Aeropol Transfer Baghouse	РМ	1.11	4.68
	Transier Bayriouse	PM ₁₀	0.56	2.34
		PM _{2.5}	0.28	1.17
PS-41	South Silo Distribution Baghouse	РМ	0.79	3.31
	Bayriouse	PM ₁₀	0.39	1.66
		PM _{2.5}	0.20	0.83
PS-42	Loadout Spout No. 1 Baghouse	РМ	0.70	2.95
	Daynouse	PM ₁₀	0.35	1.48
		PM _{2.5}	0.18	0.74
PS-43	Loadout Spout No. 2 Baghouse	РМ	0.70	2.95
	Bugnouse	PM ₁₀	0.35	1.48
		PM _{2.5}	0.18	0.74
PS-44	Loadout Spout No. 3 Baghouse	РМ	0.70	2.95
	Bugnouse	PM ₁₀	0.35	1.48
		PM _{2.5}	0.18	0.74
PS-45	Regrind Bin Baghouse	РМ	0.07	0.27
		PM ₁₀	0.03	0.14
		PM _{2.5}	0.02	0.07
PS-46	Regrind Cyclone Baghouse	РМ	0.26	1.08
	Dagnodo	PM ₁₀	0.13	0.54

		PM _{2.5}	0.07	0.27
PS-47	Silo 13 LKD Baghouse	PM	0.19	0.79
		PM ₁₀	0.10	0.40
		PM _{2.5}	0.05	0.20
PS-48	Silo 14 Alumina	PM	0.21	0.18
	Baghouse	PM ₁₀	0.10	0.09
		PM _{2.5}	0.05	0.05
PS-49	Slag Silo Filter Vent	PM	0.15	0.68
		PM ₁₀	0.08	0.34
		PM _{2.5}	0.04	0.17
PS-50	North Slag Feeder Filter Vent	PM	0.15	0.68
	Filter Verit	PM ₁₀	0.08	0.34
		PM _{2.5}	0.04	0.17
PS-51	South Slag Feeder Filter Vent	PM	0.15	0.68
	T mor vone	PM ₁₀	0.08	0.34
		PM _{2.5}	0.04	0.17
PS-61	Transfer Tower Clay Baghouse	PM	0.005	0.02
	Bagnoase	PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
PS-62	Mill Scale Bin Baghouse	PM	0.01	0.03
	Bagnoase	PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
PS-63	Bottom Ash Bin Baghouse	PM	0.01	0.03
	Bagnoase	PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
PS-64	Limestone Bin Baghouse	PM	0.02	0.08
	g	PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
PS-65	Weight Feeder Mill Scale Baghouse	PM	0.01	0.05

		PM ₁₀	<0.01	0.02
		PM _{2.5}	<0.01	0.02
PS-66	Weight Feeder Bottom	PM	0.01	0.05
	Ash Baghouse	PM ₁₀	<0.01	0.02
		PM _{2.5}	<0.01	0.02
PS-67	Weight Feeder	PM	0.01	0.05
	Limestone Baghouse	PM ₁₀	<0.01	0.02
		PM _{2.5}	<0.01	0.02
PS-68	Weight Feeder Clay	PM	0.01	0.05
	Baghouse	PM ₁₀	<0.01	0.02
		PM _{2.5}	<0.01	0.02
PS-69	Additives Belt	PM	0.01	0.05
	Conveyor Baghouse	PM ₁₀	<0.01	0.02
		PM _{2.5}	<0.01	0.02
PS-70	Raw Material Rejected	PM	<0.01	0.02
	Baghouse	PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
PS-71	Raw Material Transfer	PM	0.01	0.05
	Baghouse	PM ₁₀	<0.01	0.02
		PM _{2.5}	<0.01	0.02
PS-72	Feed to Blending Silo Baghouse	PM	0.01	0.05
	bayriouse	PM ₁₀	<0.01	0.02
		PM _{2.5}	<0.01	0.02
PS-73	Blending Silo #2 Baghouse	PM	0.01	0.05
	Баупоизе	PM ₁₀	<0.01	0.02
		PM _{2.5}	<0.01	0.02
PS-74	K-2 Feed Buffer Bin	PM	0.01	0.04
	Baghouse	PM ₁₀	<0.01	0.02
		PM _{2.5}	<0.01	0.02

PS-75	K-2 Feed Bucket Elevator Bottom	PM	0.01	0.03
	Baghouse	PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
PS-76	K-2 Feed Bucket Elevator Top	РМ	0.01	0.04
	Baghouse	PM ₁₀	<0.01	0.02
		PM _{2.5}	<0.01	0.02
PS-77	Kiln No. 2 Main Baghouse (10)	PM (FH + BH) (8)	24.61	103.35
	bagnouse (10)	PM ₁₀ (FH + BH) (8)	22.57	95.40
		PM _{2.5}	22.57	95.40
		voc	13.07	47.70
		NO _x (8)	386.00	(7)
		SO ₂ (8)	106.00	(7)
		CO (9)	772.00	(7)
		HCI	2.57	11.25
		NH ₃	1.63	7.15
PS-78	Airslide to Buffer Bin Baghouse	PM	<0.01	<0.01
	Daynouse	PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PS-79	Buffer Bin Baghouse	РМ	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PS-80	Kiln Line 2 Clinker Cooler Baghouse	PM	10.36	34.81
	Cooler Bagriouse	PM ₁₀	7.87	26.45
		PM _{2.5}	7.87	26.45
PS-81a	Pan Conveyor No. 2 Transfer Baghouse	РМ	0.01	0.06
	Transier Dayriouse	PM ₁₀	<0.01	0.02
		PM _{2.5}	<0.01	0.02
PS-82a	Pan Conveyor Tower Transfer Baghouse	РМ	0.01	0.06
	Transier Daynouse	PM ₁₀	<0.01	0.02

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	PM _{2.5}	<0.01	0.02
Clinker Silo Baghouse	РМ	0.01	0.06
	PM ₁₀	<0.01	0.02
	PM _{2.5}	<0.01	0.02
Finish Mill No. 3 Weigh Feeder Silo 1	РМ	0.01	0.03
Baghouse	PM ₁₀	<0.01	0.01
	PM _{2.5}	<0.01	0.01
Finish Mill No. 3	РМ	0.01	0.03
Baghouse	PM ₁₀	<0.01	0.01
	PM _{2.5}	<0.01	0.01
Lime Dust Bin	РМ	<0.01	<0.01
baynouse	PM ₁₀	<0.01	<0.01
	PM _{2.5}	<0.01	<0.01
Finish Mill Weigh Feeder Gypsum Baghouse	РМ	0.01	0.03
	PM ₁₀	<0.01	0.01
	PM _{2.5}	<0.01	0.01
Bucket Elevator Feed FM 3 Baghouse	РМ	0.01	0.03
	PM ₁₀	<0.01	0.01
	PM _{2.5}	<0.01	0.01
Belt Feed Finish Mill 3	РМ	<0.01	0.01
Bagnouse	PM ₁₀	<0.01	0.01
	PM _{2.5}	<0.01	0.01
Finish Mill No. 3	РМ	4.55	10.90
baynouse	PM ₁₀	2.28	5.45
	PM _{2.5}	0.68	0.78
Mill No. 3 Airslide	РМ	0.01	0.04
Transier Dayriouse	PM ₁₀	<0.01	0.02
	PM _{2.5}	<0.01	0.02
Mill No. 3 Coolers Cement Transfer	PM	0.01	0.03
	Weigh Feeder Silo 1 Baghouse Finish Mill No. 3 Weigh Feeder Silo 2 Baghouse Lime Dust Bin Baghouse Finish Mill Weigh Feeder Gypsum Baghouse Bucket Elevator Feed FM 3 Baghouse Belt Feed Finish Mill 3 Baghouse Finish Mill No. 3 Baghouse Mill No. 3 Airslide Transfer Baghouse Mill No. 3 Coolers	PM10 PM2.5 PM PM10 PM2.5 PM100 PM2.5 PM2.5 PM2.5 PM2.5 PM2.5 PM2.5 PM2.5 PM2.5 PM2.5 P	Clinker Silo Baghouse

		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
PS-93	Gral Bucket Elevator Top Baghouse	PM	0.01	0.03
	Top Bagnouse	PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
PS-94	Transfer Bucket Elevator Top	PM	0.01	0.04
	Baghouse	PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
PS-95	Vent Airslide to Cement Silos	РМ	0.01	0.04
	Baghouse	PM ₁₀	<0.01	0.02
		PM _{2.5}	<0.01	0.02
PS-96	Cement Silo Baghouse	РМ	0.01	0.04
	bagnouse	PM ₁₀	<0.01	0.02
		PM _{2.5}	<0.01	0.02
PS-97	Cement Buffer Bin	PM	0.03	0.13
	Baghouse	PM ₁₀	0.01	0.05
		PM _{2.5}	0.01	0.05
PS-98	Vent Airslide to Spout #1 Baghouse	PM	0.02	0.08
	#1 Bagnouse	PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
PS-99	No. 1 Loadout Spout Baghouse	PM	0.02	0.08
	bagnouse	PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
PS-100	Vent Airslide to Spout #2 Baghouse	РМ	0.02	0.08
	#2 DayHouse	PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
PS-101	No. 2 Loadout Spout Baghouse	PM	0.02	0.08
	Daynouse	PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03

PS-102	No. 1 Pet Coke Transfer Baghouse	PM	0.01	0.04
	Transier Bagnouse	PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
PS-103	No. 2 Coke Belt Transfer Baghouse	PM	0.01	0.04
	Transier Bagilouse	PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
PS-104	No. 2 Coke Mill Bin 1 Baghouse	PM	<0.01	0.01
	Bagriouse	PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PS-105	No. 2 Coke Mill Baghouse	PM	4.96	20.82
	Bagnouse	PM ₁₀	2.48	10.41
		PM _{2.5}	2.48	10.41
PS-106	Finish Coke No. 2 Bin 1 Baghouse	PM	<0.01	<0.01
	1 baynouse	PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PS-107	Finish Coke No. 2 Bin 2 Baghouse	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PS-108	Limestone Transfer Point Baghouse	PM	0.02	0.08
	T oint bagnouse	PM ₁₀	<0.01	0.03
		PM _{2.5}	<0.01	0.03
PS-109	Feed Slag to Finish Mill Baghouse	PM	0.01	0.03
	Willi Bagriouse	PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
AFT-1	Alternative Fuel Truck Unloading	PM	0.01	0.04
	Onloading	PM ₁₀	<0.01	0.02
		PM _{2.5}	<0.01	<0.01
PS-110 D1	Alternative Fuel Conveyor Drop #1	PM	<0.01	<0.01
	Conveyor Drop #1	PM ₁₀	<0.01	<0.01

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		PM _{2.5}	<0.01	<0.01
PS-110 D2	Alternative Fuel Conveyor Drop #2	PM	<0.01	<0.01
	Conveyor Brop #2	PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PS-110 D3	Alternative Fuel Conveyor Drop #3	РМ	<0.01	<0.01
	Conveyor Brop #3	PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
PS-111	Cement Silo Baghouse	РМ	0.43	1.88
	Bagnouse	PM ₁₀	0.21	0.94
		PM _{2.5}	0.11	0.47
PS-112	Cement Silo Baghouse	РМ	0.43	1.88
	Daynouse	PM ₁₀	0.21	0.94
		PM _{2.5}	0.11	0.47
PS-115	Transfer Tower Slide Gate	PM	0.01	0.06
		PM ₁₀	<0.01	0.02
		PM _{2.5}	<0.01	0.02
LEF-1	Dry Sorbent Injection System – Hopper Vent	РМ	<0.01	0.01
	1	PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
LEF-2	Dry Sorbent Injection	PM	<0.01	<0.01
	System – Air Lock Vent 1	PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
LEF-3	Dry Sorbent Injection System – Hopper Vent	РМ	<0.01	0.01
	2	PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
LEF-4	Dry Sorbent Injection System – Air Lock	PM	<0.01	<0.01
	Vent 2	PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
NH3 FUG	Ammonia Storage and Piping (5)	NH ₃	0.06	0.28

Fugitive Emissions: M	laterial Drops to Stationary	Sources		
FC-1	Process Fugitive (5)	РМ	-	2.53
		PM ₁₀	-	1.20
		PM _{2.5}	-	0.38
Fugitive Emissions from	m Material Stockpiles: Mat	erial Drops and Wind Erosion		
FC-2	Stockpiles (5)	РМ	-	5.64
		PM ₁₀	-	2.82
		PM _{2.5}	-	0.85
MTL	Material Handling (5), (6)	РМ	7.39	10.31
	(6)	PM ₁₀	7.39	10.31
		PM _{2.5}	1.11	1.55
PS-16 + PS-77	Kiln 1 and Kiln 2 Combined Limits (7), (10)	NO _x	-	2,801.00
		SO ₂	-	116.50
		со	-	1,915.00
Planned Maintenance	Activities			
MSSFUG1	Inherently Low Emitting (ILE) Planned Maintenance Activities	NO _x	<0.01	<0.01
		со	0.10	0.04
		SO ₂	<0.01	<0.01
		РМ	0.39	0.32
		PM ₁₀	0.20	0.22
		PM _{2.5}	0.06	0.08
		voc	1.99	0.05

- (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 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 - hydrochloric acid

 NH_3 - ammonia

(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) Material handling consists of EPNs BA-5, CGS-12, CGS-13, RS-21, RS-22, SD-2, SD-6, SD-7, SD-8, SD-13, SD-14, and SD-15.
- (7) Kiln 1 and Kiln 2 combined emission limits for NO_x , SO_2 , and CO.
- (8) Compliance is based on a 30-day rolling average. A 30-day rolling average is generated for each day as the average of all the day's hourly emission data and the preceding 29 days of hourly emission data (representing only those hours during kiln operation including hours of planned maintenance, startup, and shutdown [MSS]).
- (9) 24-hour average as determined by the continuous emission measurement system, including hours of planned MSS.
- (10) Planned startup and shutdown emissions from the kilns are included.

Date:	January 9, 2020