Permit Number 168854

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)
		PM	12.25	50.58
DAC-1	Direct Air Contactor	PM ₁₀	11.24	46.63
		PM _{2.5}	9.13	37.79
		NOx	3.92	1.41
		СО	145.26	5.70
		voc	0.43	0.16
C-SU-NG	Calciner Startup Natural Gas Combustion	SO ₂	0.05	0.02
		PM	3.85	1.39
		PM ₁₀	3.85	1.39
		PM _{2.5}	3.85	1.39
	Calciner Startup CO₂ Venting	NOx	18.46	6.64
		СО	31.01	11.16
		voc	2.07	0.74
SUCO2Vent		SO ₂	0.22	0.08
		PM	3.75	1.35
		PM ₁₀	3.75	1.35
		PM _{2.5}	3.75	1.35
		PM	0.18	0.77
ASU-CT	ASU Cooling Tower	PM ₁₀	0.13	0.56
		PM _{2.5}	0.06	0.25
	·	NOx	16.08	0.80
		СО	8.79	0.44
		VOC	16.08	0.80
GENASU	ASU Emergency Generator	SO2	0.02	<0.01
		PM	0.50	0.03
		PM ₁₀	0.50	0.03

		PM _{2.5}	0.50	0.03
GENWT	WT Emergency Generator	NOx	16.08	0.80
	g ,	СО	8.79	0.44
		voc	16.08	0.80
		SO2	0.02	<0.01
		PM	0.50	0.03
		PM ₁₀	0.50	0.03
		PM _{2.5}	0.50	0.03
GENDAC	DAC Emergency Generator	NOx	16.08	0.80
		СО	8.79	0.44
		voc	16.08	0.80
		SO2	0.02	<0.01
		PM	0.50	0.03
		PM ₁₀	0.50	0.03
		PM _{2.5}	0.50	0.03
PM-PlantRd	Plant Road Fugitives	PM	7.29	10.86
		PM ₁₀	1.46	2.17
		PM _{2.5}	0.36	0.53
101-718302	Calciner Baghouse	PM	2.26	9.90
		PM ₁₀	2.26	9.90
		PM _{2.5}	2.26	9.90
7-C-714012	CaCO₃ Transition Conveyor 1 - Screw Conveyor	PM	0.04	(6)
		PM ₁₀	0.04	(6)
		PM _{2.5}	0.02	(6)
7-C-714022	CaCO₃ Transition Conveyor 2 - Screw Conveyor	PM	0.04	(6)
		PM ₁₀	0.04	(6)
	*	PM _{2.5}	0.02	(6)
7-C-714032	CaCO₃ Transition Conveyor 3 - Screw Conveyor	PM	0.04	(6)
	Conveyor	PM ₁₀	0.04	(6)
		PM _{2.5}	0.02	(6)
7-C-714042	CaCO₃ Transition Conveyor 4 - Screw Conveyor	PM	0.04	(6)
	Conveyor	PM ₁₀	0.04	(6)

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		PM _{2.5}	0.02	(6)
7-C-714052	CaCO₃ Transition Conveyor 5 - Screw Conveyor	PM	0.04	(6)
	j	PM ₁₀	0.04	(6)
		PM _{2.5}	0.02	(6)
CAP1	CaCO₃ Transition Conveyors - Screw Conveyors	PM	-	0.42
		PM ₁₀	-	0.35
		PM _{2.5}		0.18
7-C-714080	Wet Pellet Transfer Conveyor - Belt Conveyor	PM	0.15	0.52
	Conveyor	PM ₁₀	0.13	0.44
		PM _{2.5}	0.06	0.22
7-C-714081	Wet Pellet Silo Bucket Elevator	PM	0.11	0.39
		PM ₁₀	0.09	0.33
		PM _{2.5}	0.05	0.16
7-C-714082	Wet Pellet Silo Feed Conveyor 1 - Belt Conveyor	PM	0.12	0.42
		PM ₁₀	0.10	0.35
		PM _{2.5}	0.05	0.17
7-C-714089	Wet Pellet to Grinder Feeder 1 – Screw Conveyor	PM	0.01	(7)
		PM ₁₀	0.01	(7)
		PM _{2.5}	<0.01	(7)
7-C-714090	Wet Pellet to Grinder Feeder 2 - Screw Conveyor	PM	0.01	(7)
		PM ₁₀	0.01	(7)
		PM _{2.5}	0.01	(7)
CAP2	Wet Pellet to Grinder Feeders - Screw Conveyors	PM	-	0.04
	Conveyors	PM ₁₀	-	0.03
		PM _{2.5}	-	0.02
7-C-714091	Pellet Grinder Crossover Conveyor - Screw Conveyor	PM	0.01	0.04
	Sciew Conveyor	PM ₁₀	0.01	0.04
		PM _{2.5}	<0.01	0.02
7-C-714098	Pellet Grinder Feed Conveyor 1 - Screw Conveyor	PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.02
7-C-714099	Pellet Grinder Feed Conveyor 2 - Screw Conveyor	РМ	0.01	0.04

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		PM ₁₀	0.01	0.04
	Mat Dellatta Davar Faeder 1 - Belt	PM _{2.5}	<0.01	0.02
7-C-714092	Wet Pellet to Dryer Feeder 1 - Belt Conveyor	PM	0.14	(8)
		PM ₁₀	0.12	(8)
		PM _{2.5}	0.06	(8)
7-C-714093	Wet Pellet to Dryer Feeder 2 - Belt Conveyor	PM	0.14	(8)
	,	PM ₁₀	0.12	(8)
		PM _{2.5}	0.06	(8)
CAP3	Wet Pellet to Dryer Feeders - Belt Conveyors	PM	-	0.62
		PM ₁₀	-	0.52
		PM _{2.5}	-	0.26
7-C-714095	Calciner Feed Conveyor - Belt Conveyor	PM	0.18	0.74
	comoje.	PM ₁₀	0.06	0.26
		PM _{2.5}	0.01	0.04
7-C-715211	Wet Fines Conveyor 1A - Screw Conveyor	PM	0.02	0.03
		PM ₁₀	0.01	0.01
		PM _{2.5}	<0.01	<0.01
7-C-715221	Wet Fines Conveyor 1B - Screw Conveyor	РМ	0.02	0.03
	Conveyor	PM ₁₀	0.01	0.01
		PM _{2.5}	<0.01	<0.01
7-C-715406	Wet Fines Conveyor 2 - Screw Conveyor	PM	0.02	0.08
	Conveyor	PM ₁₀	0.01	0.03
		PM _{2.5}	<0.01	<0.01
8-Z-861002-1	Bulk Solid (Soda Ash) Silo 1	PM	0.36	0.03
		PM ₁₀	0.20	0.02
		PM _{2.5}	0.03	<0.01
8-Z-861002-2	Bulk Solid (Soda Ash) Silo 2	PM	0.36	0.03
		PM ₁₀	0.20	0.02
		PM _{2.5}	0.03	<0.01
8-Z-861002-3	Bulk Solid (Soda Ash) Silo 3	PM	0.36	0.03
		PM ₁₀	0.20	0.02
		PM _{2.5}	0.03	<0.01

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8-Z-861002-4	Bulk Solid (Soda Ash) Silo 4	PM	0.36	0.03
		PM ₁₀	0.20	0.02
		PM _{2.5}	0.03	<0.01
8-Z-861002-5	Bulk Solid (Lime) Silo	PM	0.36	0.03
		PM ₁₀	0.20	0.02
		PM _{2.5}	0.03	<0.01
1-T-112061	Seed Feed Bin 1	PM	0.04	0.17
		PM ₁₀	0.04	0.17
		PM _{2.5}	0.04	0.17
2-T-112061	Seed Feed Bin 2	PM	0.04	0.17
		PM ₁₀	0.04	0.17
		PM _{2.5}	0.04	0.17
3-T-112061	Seed Feed Bin 3	PM	0.04	0.17
		PM ₁₀	0.04	0.17
		PM _{2.5}	0.04	0.17
4-T-112061	Seed Feed Bin 4	PM	0.04	0.17
		PM ₁₀	0.04	0.17
		PM _{2.5}	0.04	0.17
7-Z-714100	Pellet Grinder Package	PM	0.64	2.82
		PM ₁₀	0.64	2.82
		PM _{2.5}	0.64	2.82
7-T-714150	Seed Product Silos 1	PM	0.03	0.14
	, in the second second	PM ₁₀	0.03	0.14
		PM _{2.5}	0.03	0.14
7-T-714250	Seed Product Silos 2	PM	0.03	0.14
		PM ₁₀	0.03	0.14
	•	PM _{2.5}	0.03	0.14
7-T-714301	Dry Fines Silo	PM	0.03	0.12
		PM ₁₀	0.03	0.12
		PM _{2.5}	0.03	0.12
7-F-714085	CaCO₃ Makeup Receiver	PM	0.04	0.17
		PM ₁₀	0.04	0.17
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		PM _{2.5}	0.04	0.17
7-F-714086	CaCO₃ Makeup Receiver	PM	0.04	0.17
		PM ₁₀	0.04	0.17
		PM _{2.5}	0.04	0.17
7-T-714096	Wet Pellet Silo	PM	0.05	0.09
		PM ₁₀	0.05	0.09
		PM _{2.5}	0.05	0.09
7-T-714097	Wet Pellet Silo	PM	0.05	0.09
		PM ₁₀	0.05	0.09
		PM _{2.5}	0.05	0.09
7-T-716910	CaO Storage Silo 1	PM	0.27	1.16
		PM ₁₀	0.27	1.16
		PM _{2.5}	0.27	1.16
7-T-716911	CaO Storage Silo 2	PM	0.27	1.16
		PM ₁₀	0.27	1.16
		PM _{2.5}	0.27	1.16
7-F-716905	CaO Purge Receiver	PM	0.27	0.01
		PM ₁₀	0.27	0.01
		PM _{2.5}	0.27	0.01
1-T-119001	CaO Bin 1	PM	0.19	0.82
		PM ₁₀	0.19	0.82
		PM _{2.5}	0.19	0.82
2-T-219001	CaO Bin 2	PM	0.19	0.82
		PM ₁₀	0.19	0.82
		PM _{2.5}	0.19	0.82
3-T-319001	CaO Bin 3	PM	0.19	0.82
	•	PM ₁₀	0.19	0.82
		PM _{2.5}	0.19	0.82
4-T-419001	CaO Bin 4	PM	0.19	0.82
		PM ₁₀	0.19	0.82
		PM _{2.5}	0.19	0.82
1-V-119013	Slaker Dust and Vent Scrubber 1	PM	0.02	0.09
	I		1	1

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		PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.09
2-V-119013	Slaker Dust and Vent Scrubber 2	PM	0.02	0.09
		PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.09
3-V-119013	Slaker Dust and Vent Scrubber 3	PM	0.02	0.09
		PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.09
4-V-119013	Slaker Dust and Vent Scrubber 4	PM	0.02	0.09
		PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.09
BE1	Bucket Elevator 1	PM	0.27	1.16
		PM ₁₀	0.09	0.41
		PM _{2.5}	0.01	0.06
BE2	Bucket Elevator 2	PM	0.27	1.16
		PM ₁₀	0.09	0.41
		PM _{2.5}	0.01	0.06
CP-T-15030	Surge Bin	PM	0.27	1.16
		PM ₁₀	0.09	0.41
		PM _{2.5}	0.01	0.06
CP-C-15010	Table Feeder	PM	0.27	1.16
		PM ₁₀	0.09	0.41
		PM _{2.5}	0.01	0.06
T-714005	Centrifuge Acid Wash Tank, 8% HCl	HCI	<0.01	<0.01
T-869001	18% HCl Storage Tank	HCI	0.02	<0.01
T-HCI	36% HCl Storage Tank Scrubber	HCI	0.16	0.02
FUG	Plant Equipment Leaks (5)	VOC	0.02	0.10
H2S Scrubber	Raw Water Treatment H2S Scrubber	PM	0.65	2.87
		PM ₁₀	0.65	2.87
		PM _{2.5}	0.65	2.87
		H ₂ S	6.40	28.03
CO2 Scrubber	CO ₂ Vent Scrubber (Normal Operation of the Calciner)	NOx	2.29	10.02

		СО	3.49	15.27
	PM	0.08	0.36	
	PM ₁₀	0.08	0.36	
		PM _{2.5}	0.08	0.36

- (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 PM₁₀ 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

 $\begin{array}{ccccc} \text{CO} & - & \text{carbon monoxide} \\ \text{CO}_2 & - & \text{carbon dioxide} \\ \text{HCI} & - & \text{hydrogen chloride} \\ \text{H}_2\text{S} & - & \text{hydrogen sulfide} \\ \text{CaO} & - & \text{calcium oxide} \\ \text{CaCO}_3 & - & \text{calcium carbonate} \\ \end{array}$

- (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) Annual emission limit is authorized under EPN CAP1.
- (7) Annual emission limit is authorized under EPN CAP2.
- (8) Annual emission limit is authorized under EPN CAP3.

Date: TBD

