Emission Sources - Maximum Allowable Emission Rates

Permit Number 20851

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 (6)	
			lbs/hour (13)	TPY (4)
EP-QP1	Surface Miner Stockpile (5)	PM	---	0.09
		PM_{10}	---	0.04
		$PM_{2.5}$	---	0.01
EP-QP2	Oversize Stockpile (5)	PM	---	0.37
		PM_{10}	---	0.18
		$PM_{2.5}$	---	0.03
EP-QP3	Product Stockpile (5)	PM	---	0.09
		PM_{10}	---	0.04
		$PM_{2.5}$	---	0.01
EP2-1F	New Plant Side Stockpile (5)	PM	---	2.18
		PM_{10}	---	1.03
		$PM_{2.5}$	---	0.16
EP-QP4	Fines Stockpile (5)	PM	---	0.06
		PM_{10}	---	0.03
		$PM_{2.5}$	---	<0.01
EP2-4F	Outdoor Landfill (5)	PM	**---**	5.29
		PM_{10}	---	2.50
		$PM_{2.5}$	---	0.38
EP-PLT6	New Plant Side Stockpile (5)	PM	---	0.06
		PM_{10}	---	0.03
		$PM_{2.5}$	---	<0.01
EP-QS	Portable Quarry Pit Screener (5)	PM	1.10	2.06
		PM_{10}	0.37	0.69
		$PM_{2.5}$	0.03	0.05
EP-QS-TP	Material Transfers From Screener to Dump Truck (5)	PM	0.14	0.26
		PM_{10}	0.05	0.09
		$PM_{2.5}$	0.01	0.02

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EP-11	Roller Mill No. 1 Dust Collector/Baghouse Stack	PM	1.11	4.86
		PM_{10}	1.11	4.86
		$PM_{2.5}$	0.62	2.71
		VOC	0.06	0.26
		NO_x	1.06	4.64
		SO_2	0.01	0.03
		CO	5.78	25.31
EP-12	Material Transfer – Feed Hopper (5)	PM	0.28	0.52
		PM_{10}	0.09	0.17
		$PM_{2.5}$	0.03	0.05
EP-12D	Transfer From Main Conveyor to 500 Ton Tank (5)	PM	0.07	0.13
		PM_{10}	0.02	0.04
		$PM_{2.5}$	0.01	0.01
EP-13	Transfer From 500 Ton Tank to 500 Ton Belt Conveyor No. 2 (5)	PM	0.01	0.06
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	0.01
EP-13A	Front End Loader into Cement Hopper (5)	PM	0.30	1.33
		PM_{10}	0.11	0.49
		$PM_{2.5}$	0.02	0.08
EP-13B	Transfer from Cement Hopper onto Rock Belt Conveyor (5)	PM	0.05	0.20
		PM_{10}	0.02	0.07
		$PM_{2.5}$	<0.01	0.01
EP-14	Transfer from 500 ton Belt Conveyor No. 2 to 500 ton Tank Belt Conveyor No. 3 (5)	PM	0.30	1.33
		PM_{10}	0.11	0.49
		$PM_{2.5}$	0.02	0.08
EP-15	Transfer from 500 ton Belt Conveyor No. 3 to Outside Rock Hopper 004 (5)	PM	0.30	1.33
		PM_{10}	0.11	0.49
		$PM_{2.5}$	0.02	0.08
EP-19	Landplaster Railcar Loading (5) (7)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
EP-20	Landplaster Truck Loading (5) (7)	PM	0.03	<0.01
		PM_{10}	0.01	<0.01

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		$PM_{2.5}$	<0.01	<0.01
EP-21	Kettle Rock Bin Dust Collector/Baghouse Stack	PM	1.71	7.51
		PM_{10}	1.71	7.51
		$PM_{2.5}$	0.90	3.93
EP-22	Roller Mill No. 2 Dust Collector/Baghouse Stack	PM	0.99	4.33
		PM_{10}	0.99	4.33
		$PM_{2.5}$	0.54	2.36
		VOC	0.03	0.14
		NO_x	0.59	2.58
		SO_2	<0.01	0.02
		CO	3.21	14.06
EP-23	Roller Mill No. 3 Dust Collector/Baghouse Stack	PM	1.11	4.86
		PM_{10}	1.11	4.86
		$PM_{2.5}$	0.62	2.71
		VOC	0.06	0.26
		NO_x	1.06	4.64
		SO_2	0.01	0.03
		CO	5.78	25.31
EP-24	Roller Mill No. 4 Dust Collector/Baghouse Stack	PM	0.99	4.33
		PM_{10}	0.99	4.33
		$PM_{2.5}$	0.54	2.36
		VOC	0.03	0.14
		NO_x	0.59	2.58
		SO_2	<0.01	0.02
		CO	3.21	14.06
EP-25	Roller Mill No. 5 Dust Collector/Baghouse Stack	PM	0.99	4.33
		PM_{10}	0.99	4.33
		$PM_{2.5}$	0.54	2.36
		VOC	0.03	0.14
		NO_x	0.59	2.58
		SO_2	<0.01	0.02
		CO	3.21	14.06
EP-26	No. 1 Landplaster Tank Dust Collector/Baghouse Stack	PM	0.17	0.75
		PM_{10}	0.17	0.75

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.09	0.39
EP-27	Kettle Calciner Electrostatic Precipitator Stack (8)	PM	14.14	61.95
		PM_{10}	14.14	61.95
		$PM_{2.5}$	8.80	38.53
EP-28	Kettle No. 1 Combustion Exhaust Stack	PM	0.08	0.33
		PM_{10}	0.08	0.33
		$PM_{2.5}$	0.08	0.33
		VOC	0.06	0.24
		NO_x	1.00	4.38
		SO_2	0.01	0.03
		CO	0.84	3.68
EP-29	Kettle No. 2 Combustion Exhaust Stack	PM	0.08	0.33
		PM_{10}	0.08	0.33
		$PM_{2.5}$	0.08	0.33
		VOC	0.06	0.24
		NO_x	1.00	4.38
		SO_2	0.01	0.03
		CO	0.84	3.68
EP-30	Kettle No. 3 Combustion Exhaust Stack	PM	0.08	0.33
		PM_{10}	0.08	0.33
		$PM_{2.5}$	0.08	0.33
		VOC	0.06	0.24
		NO_x	1.00	4.38
		SO_2	0.01	0.03
		CO	0.84	3.68
EP-31	Kettle No. 4 Combustion Exhaust Stack	PM	0.08	0.33
		PM_{10}	0.08	0.33
		$PM_{2.5}$	0.08	0.33
		VOC	0.06	0.24
		NO_x	1.00	4.38
		SO_2	0.01	0.03
		CO	0.84	3.68
EP-32	Kettle No. 5 Combustion Exhaust Stack	PM	0.08	0.33
		PM_{10}	0.08	0.33

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.08	0.33
		VOC	0.06	0.24
		NO_x	1.00	4.38
		SO_2	0.01	0.03
		CO	0.84	3.68
EP-33	Kettle No. 6 Combustion Exhaust Stack	PM	0.08	0.33
		PM_{10}	0.08	0.33
		$PM_{2.5}$	0.08	0.33
		VOC	0.06	0.24
		NO_x	1.00	4.38
		SO_2	0.01	0.03
		CO	0.84	3.68
EP-34	Kettle No. 7 Combustion Exhaust Stack	PM	0.08	0.33
		PM_{10}	0.08	0.33
		$PM_{2.5}$	0.08	0.33
		VOC	0.06	0.24
		NO_x	1.00	4.38
		SO_2	0.01	0.03
		CO	0.84	3.68
EP-36	Line No. 1 Stucco Bins Dust Collector/Baghouse Stack	PM	0.39	1.73
		PM_{10}	0.39	1.73
		$PM_{2.5}$	0.21	0.90
EP-37	Stucco Screw Conveyance Dust Collector/Baghouse Stack	PM	0.80	3.49
		PM_{10}	0.80	3.49
		$PM_{2.5}$	0.42	1.83
EP-40/45/46 (9)	Line No. 1 Board Dryer	PM	15.03	---
		PM_{10}	12.75	---
		$PM_{2.5}$	8.47	**---**
		VOC	30.24	**---**
		NO_x	6.63	**---**
		SO_2	0.04	**---**
		CO (10)	31.39	**---**
		Formaldehyde (11)	0.52	**---**

Emission Sources - Maximum Allowable Emission Rates

		Methanol (11/12)	1.57	**---**
		Quinoline (11)	0.30	---
EP-62 (9)	Line No. 2 Board Dryer	PM	13.87	**--**
		PM_{10}	11.64	**---**
		$PM_{2.5}$	8.27	**---**
		VOC	32.26	**---**
		NO_x	7.65	**---**
		SO_2	0.05	**---**
		CO (10)	30.64	**---**
		NH_3	0.07	**---**
		Formaldehyde (10)	0.53	**---**
		Methanol (11)(12)	3.03	**---**
		Quinoline (11)	0.36	**---**
EP-40/45/46, EP-62	Line No. 1 Board Dryer and Line No. 2 Board Dryer	PM	---	126.57
		PM_{10}	---	106.84
		$PM_{2.5}$	---	73.33
		VOC	---	273.75
		NO_x	---	62.54
		SO_2	---	0.38
		CO (10)	---	271.69
		NH3	---	0.32
		Formaldehyde (5)	---	4.60
		Methanol	---	9.50
		Quinoline	---	2.89
EP-47	Line No. 1 End Saw Dust Collector/Baghouse Stack	PM	1.02	4.47
		PM_{10}	1.02	4.47
		$PM_{2.5}$	0.53	2.34
EP-47A	Line No. 1 End Saw Fines Bulk Truck Loadout (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
EP-48	Holtec Saw Dust Collector/Baghouse Stack	PM	0.97	3.18
		PM_{10}	0.97	3.18
		$PM_{2.5}$	0.52	1.71
EP-48A	Holtec Saw Fines Bulk Truck Loadout (5)	PM	0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
EP-54	Line No. 2 Stucco Bins Dust Collector/ Baghouse Stack	PM	0.39	1.73
		PM_{10}	0.39	1.73
		$PM_{2.5}$	0.21	0.90
EP-56	Line No. 2 Pin Mixer (5)	PM	0.18	0.80
		PM_{10}	0.07	0.29
		$PM_{2.5}$	0.01	0.05
EP-63	Line No. 2 Vent Hood Dust Collector/ Baghouse Stack	PM	0.78	3.42
		PM_{10}	0.78	3.42
		$PM_{2.5}$	0.36	1.60
EP-63A	Front End Loader at Line No. 2 Scrap Hopper (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
EP-64	Riser Machine Dust Collector/Baghouse Stack	PM	0.28	1.22
		PM_{10}	0.28	1.22
		$PM_{2.5}$	0.15	0.65
EP-64A	Riser Machine Fines Bulk Loadout (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
EP-67	Landplaster Railcar Transfer to Underground Screw (5)	PM	0.01	0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
EP-67A	Lignosite Manual Transfer into Blender (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
EP-67B	Blender Fines Bulk Truck Loadout (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
EP-73	Joint System Dust Collector/ Baghouse Stack	PM	0.56	2.44
		PM_{10}	0.56	2.44
		$PM_{2.5}$	0.29	1.28
EP-80	Starch Silo Dust Collector/Baghouse Stack	PM	0.17	0.75
		PM_{10}	0.17	0.75

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		$PM_{2.5}$	0.09	0.39
EP-81	Line No. 2 End Saws Dust Collector/Baghouse Stack	PM	0.44	1.92
		PM_{10}	0.44	1.92
		$PM_{2.5}$	0.23	1.01
EP-81A	Fines Bulk Truck Loadout (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
EP-89	1,000 Gallon Gasoline Storage Tank (5)	VOC	13.10	0.24
EP-90	10,000 Gallon Diesel Storage Tank (5)	VOC	0.64	0.01
EP-92	82 Gallon Diesel Storage Tank (5)	VOC	0.01	<0.01
EP-93	500 Gallon Used Oil Storage Tank A (5)	VOC	<0.01	<0.01
EP-94	500 Gallon Used Oil Storage Tank B (5)	VOC	<0.01	<0.01
EP-96	Parts Washers (3 total)(5)	VOC	---	1.64
EP-97	1,000 Gallon Diesel Storage Tank (5)	VOC	0.06	<0.01
EP-98	1,000 Gallon Gasoline Storage Tank (5)	VOC	12.10	0.22
EP-BV01	Building Vent - Roller Mills and Kettles (5)	PM	0.16	0.68
		PM_{10}	0.06	0.25
		$PM_{2.5}$	0.01	0.04
EP-BV02	Building Vent – Line No. 2 Dry Additives and Paper Heaters (5)	PM	<0.01	0.02
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	0.02
		VOC	0.02	0.01
		NO_X	0.05	0.23
		SO_2	<0.01	<0.01
		CO	0.04	0.19
EP-BV04	Building Vent – Spray Paint Booth (5)	PM	0.12	0.19
		PM_{10}	0.12	0.19
		$PM_{2.5}$	0.02	0.03
		VOC	0.01	0.02
		NH_3	0.01	0.02
EP-BV05	Building Vent – Paint Line Heaters 10 – 24 and Holtec Saw (5)	PM	0.02	0.07
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.02	0.07
		VOC	0.01	0.05

Emission Sources - Maximum Allowable Emission Rates

		NOx	0.22	0.97
		SO_2	<0.01	0.01
		CO	0.19	0.81
EP-BV06	Building Vent – Paint Line Board Feeder, Roll Coaters #1 and #2, and IR Heaters 1 - 9 and 25 – 28 (5)	PM	0.07	0.33
		PM_{10}	0.07	0.33
		$PM_{2.5}$	0.07	0.33
		VOC	3.03	13.26
		NOx	0.16	0.71
		SO_2	<0.01	<0.01
		CO	0.14	0.60
		NH_3	1.63	7.14
EP-BV07	Building Vent – Line No. 1 Dry Additives, Pin Mixer, Paper Heaters, and Soap Tank (5)	PM	0.03	0.13
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.03
		VOC	0.02	0.01
		NO_X	0.06	0.26
		SO_2	<0.01	<0.01
		CO	0.05	0.22

(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
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) Planned startup and shutdown emissions are included as well as planned maintenance activities identified as part of the permit alteration request submitted on January 3, 2013.
(7) Emission Point Numbers EP-19 and EP-20 shall not operate simultaneously.
(8) During startup of the electrostatic precipitator (EPN EP-27), the emission will be authorized by 30 TAC 106.263.
(9) For determination of compliance, annual emissions for EPNs EP-40/45/46 and EP-62 **should** be summed.
(10) The hourly emission rate for reporting CO compliance with the permit shall be based on a 3-hour average.
(11) The emissions of all Hazardous Air Pollutants (HAPs) shall not exceed 25 tpy for all HAPs combined or 10 tpy of a single HAP.
(12) Total plant-wide methanol emissions shall not exceed 9.5 tpy.
(13) Compliance with hourly emissions for all non-fugitive sources to be demonstrated on a 3-hour average basis.

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Date: November 16, 2017