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	TPY (4)
EP-QP1	Surface Miner Stockpile (5)	PM	0.02	0.09
		PM_{10}	0.01	0.04
		$PM_{2.5}$	<0.01	<0.01
EP-QP2	Oversize Stockpile (5)	PM	0.09	0.38
		PM_{10}	0.04	0.18
		$PM_{2.5}$	<0.01	0.03
EP-QP3	Product Stockpile (5)	PM	0.02	0.09
		PM_{10}	0.01	0.04
		$PM_{2.5}$	<0.01	<0.01
EP2-1F	New Plant Side Stockpile (5)	PM	0.50	2.18
		PM_{10}	0.23	1.03
		$PM_{2.5}$	0.04	0.16
EP-QP4	Fines Stockpile (5)	PM	0.01	0.06
		PM_{10}	<0.01	0.03
		$PM_{2.5}$	<0.01	<0.01
EP-PLT6	New Plant Side Stockpile (5)	PM	0.01	0.06
		PM_{10}	<0.01	0.03
		$PM_{2.5}$	<0.01	<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 Transfer From Screener to Dump Truck (5)	PM	0.07	0.16
		PM_{10}	0.02	0.05
		$PM_{2.5}$	<0.01	<0.01

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EP-11	Roller Mill Baghouse No. 1 Stack	PM	1.03	4.51
		PM_{10}	1.03	4.51
		VOC	0.03	0.14
		NO_x	0.59	2.58
		SO_2	<0.01	0.02
		CO	0.49	2.16
		Hexane (5)	0.01	0.05
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 New Belt 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 RBC #2 (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
EP-14	Rock Bin Building, Silo and Mill Building Conveyors (5)	PM	1.80	7.88
		PM_{10}	0.66	2.89
EP-16	Discharge Conveyor to Oversize Stock Pile (Screening) (5)	PM	0.24	1.06
		PM_{10}	0.12	0.50
EP-17	Discharge Chute from Mill to Ground (5)	PM	1.22	5.32
		PM_{10}	0.58	2.52
EP-19	Discharge Landplaster Chute to Railcar (5) (7)	PM	0.06	0.24
		PM_{10}	0.03	0.11
EP-20	Discharge Landplaster Chute to Truck (5) (7)	PM	0.06	0.24
		PM_{10}	0.03	0.11
EP-21	Mill Kettle Bins and Screw Baghouse No. 6 Stack	PM	1.71	7.51
		PM_{10}	1.71	7.51
EP-22	Roller Mill Baghouse No. 2 Stack	PM	0.94	4.13
		PM_{10}	0.94	4.13
		VOC	0.04	0.18
		NO_x	0.74	3.22

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		SO_2	<0.01	0.02
		CO	0.62	2.71
		Hexane (5)	0.01	0.06
EP-23	Roller Mill Baghouse No. 3 Stack	PM	1.03	4.51
		PM_{10}	1.03	4.51
		VOC	0.03	0.14
		NO_x	0.59	2.58
		SO_2	<0.01	0.02
		CO	0.49	2.16
		Hexane (5)	0.01	0.05
EP-24	Roller Mill Baghouse No. 4 Stack	PM	0.94	4.13
		PM_{10}	0.94	4.13
		VOC	0.03	0.14
		NO_x	0.59	2.58
		SO_2	<0.01	0.02
		CO	0.49	2.16
		Hexane (5)	0.01	0.05
EP-25	Roller Mill Baghouse No. 5 Stack	PM	0.94	4.13
		PM_{10}	0.94	4.13
		VOC	0.03	0.14
		NO_x	0.59	2.58
		SO_2	<0.01	0.02
		CO	0.49	2.16
		Hexane (5)	0.01	0.05
EP-26	Landplaster Conveyor Baghouse Stack	PM	1.71	7.51
		PM_{10}	1.71	7.51
EP-27	Kettle Calciner ESP Stack (7)	PM	14.14	61.95
		PM_{10}	14.14	61.95
EP-28	No. 1 Kettle Combustion Chamber	PM	0.10	0.42
		PM_{10}	0.10	0.42
		VOC	0.07	0.31
		NO_x	1.27	5.58

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		SO_2	0.01	0.03
		CO	1.07	4.69
		Hexane (5)	0.02	0.10
EP-29	No. 2 Kettle Combustion Chamber	PM	0.10	0.42
		PM_{10}	0.10	0.42
		VOC	0.07	0.31
		NO_x	1.27	5.58
		SO_2	0.01	0.03
		CO	1.07	4.69
		Hexane (5)	0.02	0.10
EP-30	No. 3 Kettle Combustion Chamber	PM	0.10	0.42
		PM_{10}	0.10	0.42
		VOC	0.07	0.31
		NO_x	1.27	5.58
		SO_2	0.01	0.03
		CO	1.07	4.69
		Hexane (5)	0.02	0.10
EP-31	No. 4 Kettle Combustion Chamber	PM	0.10	0.42
		PM_{10}	0.10	0.42
		VOC	0.07	0.31
		NO_x	1.27	5.58
		SO_2	0.01	0.03
		CO	1.07	4.69
		Hexane (5)	0.02	0.10
EP-32	No. 5 Kettle Combustion Chamber	PM	0.10	0.42
		PM_{10}	0.10	0.42
		VOC	0.07	0.31
		NO_x	1.27	5.58
		SO_2	0.01	0.03
		CO	1.07	4.69
		Hexane (5)	0.02	0.10
EP-33	No. 6 Kettle Combustion Chamber	PM	0.10	0.42

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		PM_{10}	0.10	0.42
		VOC	0.07	0.31
		NO_x	1.27	5.58
		SO_2	0.01	0.03
		CO	1.07	4.69
		Hexane (5)	0.02	0.10
EP-34	No. 7 Kettle Combustion Chamber	PM	0.10	0.42
		PM_{10}	0.10	0.42
		VOC	0.07	0.31
		NO_x	1.27	5.58
		SO_2	0.01	0.03
		CO	1.07	4.69
		Hexane (5)	0.02	0.10
EP-36	No. 1 Line Board Stucco Silo Baghouse Stack	PM	0.64	2.82
		PM_{10}	0.64	2.82
EP-37	Outdoor Stucco Conveyors Baghouse Stack	PM	1.71	7.51
		PM_{10}	1.71	7.51
EP-40	No. 1 Line Board Dryer Wet End Seal	PM	0.28	1.21
		PM_{10}	0.28	1.21
EP-45	No. 1 Line Board Dryer Zone Nos. 1 through 5	PM	33.67	147.50
		PM_{10}	9.60	42.10
		VOC	36.98	162.00
		NO_x	8.60	37.67
		SO_2	0.05	0.23
		CO (9)	7.22	31.64
		NH_3	6.96	30.50
		Hexane (5)	0.15	0.68
		Glycol Ethers (5)	0.03	0.11
		Ethylene Glycol (5)	<0.01	<0.01
		Formaldehyde (5)	0.03	0.10
		Acetaldehyde (5)	0.26	1.12
		1,2 Ethanediol	0.80	3.52

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		Triethylamine (5)	0.19	0.82
EP-46	No. 1 Line Board Dryer Dry End Seal	PM	0.50	2.18
		PM_{10}	0.50	2.18
EP-47	System No. 1 Baghouse Stack	PM	1.02	4.47
		PM_{10}	1.02	4.47
EP-48	Dens Shield Paint Line Baghouse Stack	PM	1.07	4.69
		PM_{10}	1.07	4.69
		VOC	0.18	0.78
		NH_3	0.10	0.42
		Glycol Ethers (5)	0.06	0.26
		1,2 Ethanediol	0.06	0.26
		Triethylamine (5)	0.06	0.26
EP-48F	Paint Line Fugitives (5)	PM	0.02	0.07
		PM_{10}	0.02	0.07
		VOC	0.90	3.95
		NO_x	0.21	0.90
		SO_2	<0.01	0.01
		CO	0.17	0.76
		NH_3	0.48	2.08
		Hexane (5)	<0.01	0.02
		Glycol Ethers (5)	0.06	0.26
		1,2 Ethanediol	0.30	1.30
		Triethylamine (5)	0.30	1.30
EP-54	No. 2 Board Line Stucco Silo Baghouse Stack	PM	0.64	2.82
		PM_{10}	0.64	2.82
EP-55	No. 2 Board Line Inline Coating	VOC	0.73	3.19
		NH_3	1.89	8.28
		1,2 Ethanediol	0.22	0.96
		Triethylamine (5)	0.05	0.22
EP-56	No. 2 Line Mixer Vent	PM	0.09	0.38
		PM_{10}	0.09	0.38
EP-58	No. 2 Line Board Dryer Infeed Hood	PM	0.25	1.10

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		PM_{10}	0.25	1.10
EP-59	No. 2 Line Board Dryer Germane Jet	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
EP-62	No. 2 Line Board Dryer Zone Nos. 1 - 3	PM	30.50	133.60
		PM_{10}	8.70	38.10
		VOC	34.90	152.90
		NO_x	7.65	33.49
		SO_2	0.05	0.20
		CO	6.42	28.10
		NH_3	4.41	19.30
		Hexane (5)	0.14	0.60
		Glycol Ethers (5)	0.02	0.11
		Ethylene Glycol (5)	<0.01	<0.01
		Formaldehyde (5)	0.03	0.11
		Acetaldehyde (5)	0.25	1.07
		1,2 Ethanediol	0.51	2.23
		Triethylamine (5)	0.12	0.52
EP-62-2	No. 2 Line Board Dryer Dry End Seal	PM	0.45	1.97
		PM_{10}	0.45	1.97
EP-63	Fiberglass Line Baghouse Stack	PM	2.40	10.51
		PM_{10}	2.40	10.51
EP-64	No. 2 Line Riser Baghouse Stack	PM	0.56	2.44
		PM_{10}	0.56	2.44
EP-67	Railcar Unloading Pit	PM	0.02	0.10
		PM_{10}	0.01	0.04
EP-69F	Natural Gas Space Heaters/Paper Heaters (5)	PM	0.03	0.12
		PM_{10}	0.03	0.12
		VOC	0.02	0.09
		NO_x	0.35	1.55
		SO_2	<0.01	0.01
		CO	0.30	1.30
		Hexane (5)	0.01	0.03

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EP-70F	Diesel Space Heaters (5)	PM	0.02	0.10
		PM_{10}	0.02	0.10
		VOC	<0.01	0.02
		NO_x	0.13	0.56
		SO_2	0.50	2.20
		CO	0.04	0.15
EP-73	Joint Production Baghouse Stack	PM	0.56	2.44
		PM_{10}	0.56	2.44
EP-80	Starch Silo Baghouse Stack	PM	0.17	0.75
		PM_{10}	0.17	0.75
EP-81	System No. 2 Baghouse Stack	PM	0.44	1.92
		PM_{10}	0.44	1.92
EP-88	Diesel Storage Tank (2,000 Gallons)	VOC	<0.01	<0.01
EP-89	Gasoline Storage Tank (1,000 Gallons)	VOC	1.36	0.54
EP-90	Diesel Storage Tank (10,000 Gallons)	VOC	0.01	0.01
EP-91	Gasoline Storage Tank (2,000 Gallons)	VOC	1.46	1.00
EP-92	Diesel Storage Tank (82 Gallons)	VOC	<0.01	<0.01
EP-93	Used Oil Storage Tank (500 Gallons)	VOC	<0.01	<0.01
EP-94	Used Oil Storage Tank (500 Gallons)	VOC	<0.01	<0.01
EP-95	Soap Tank (7,000 Gallons)	VOC	<0.01	0.01
EP-96	Maintenance Parts Washers (3 total)	VOC	0.23	0.99

(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) Fugitive emissions are an estimate only.

Emission Sources - Maximum Allowable Emission Rates

(5) The combination of all Hazardous Air Pollutants (HAPs) shall not exceed 25 tons per year (tpy) and the facility shall emit less than 10 tpy of a single HAP.
(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) The hourly emission rate for CO shall be the limit for stack testing purposes. The hourly emission rate for reporting CO compliance with the permit shall be based on a 3-hr average.

Date: May 16, 2016