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)
EP2-1F	Outdoor Rock Pile-Stock (4)	PM	1.03	4.50
		PM_{10}	0.46	2.03
EP2-2F	Outdoor Rock Pile-Molding (4)	PM	0.61	2.65
		PM_{10}	0.28	1.24
EP2-3F	Outdoor Rock Pile-Stock (4)	PM	0.01	0.04
		PM_{10}	<0.01	0.01
EP2-4F	Outdoor Recycle Pile-Dump (4)	PM	0.84	3.70
		PM_{10}	0.38	1.65
EP2-5F	Outdoor Rock Pile – Oversized Rock (4)	PM	0.13	0.56
		PM_{10}	0.05	0.24
EP2-6F	Outdoor Rock Pile - Processed Rock (4)	PM	0.16	0.71
		PM_{10}	0.07	0.30
EP-3	Gypsum Unloading to Crusher with Jackhammer	PM	0.07	0.29
		PM_{10}	0.03	0.14
EP-5	Primary and Secondary Crusher Conveyor	PM	0.79	3.45
		PM_{10}	0.34	1.51
EP-6	Crusher to Screening Conveyors	PM	2.75	12.06
		PM_{10}	1.01	4.42
EP-7	Gypsum Screening	PM	0.75	3.29
		PM_{10}	0.45	1.97
EP-8	Screening Feed Pile Return	PM	0.17	0.76
		PM_{10}	0.06	0.25
EP-9	Screening and Rock Bin Building Conveyors	PM	1.98	8.67
		PM_{10}	0.73	3.18

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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-13	Conveyor Belt and Mill Rock Hopper	PM	1.80	7.88
		PM_{10}	0.66	2.89
EP-14	Rock Bin Building, Silo and Mill Building Conveyors	PM	1.80	7.88
		PM_{10}	0.66	2.89
EP-16	Discharge Conveyor to Oversize Stock Pile (Screening)	PM	0.24	1.06
		PM_{10}	0.12	0.50
EP-17	Discharge Chute from Mill to Ground	PM	1.22	5.32
		PM_{10}	0.58	2.52
EP-19	Discharge Landplaster Chute to Railcar	PM	0.06	0.24
		PM_{10}	0.03	0.11
EP-20	Discharge Landplaster Chute to Truck	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
		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

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		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

Emission Sources - Maximum Allowable Emission Rates

		Hexane (5)	0.02	0.10
EP-33	No. 6 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-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	7.22	31.64
		NH_3	6.96	30.50
		Hexane (5)	0.15	0.68

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		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
		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 (4)	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

Emission Sources - Maximum Allowable Emission Rates

		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
		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

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		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 (4)	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
EP-70F	Diesel Space Heaters (4)	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

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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) PM - particulate matter, suspended in the atmosphere, including PM_{10}
PM_{10} - particulate matter less than 10 microns in diameter
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
CO - carbon monoxide
NH_3 - ammonia
(4) Fugitive emissions are an estimate only.
(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) During startup of the electrostatic precipitator (EPN EP-27), the emission will be authorized by 30 TAC 106.263.

Date: December 12, 2013