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	Uncrushed Outdoor Stockpile (5)	PM	0.34	1.49
		PM_{10}	0.16	0.71
		$PM_{2.5}$	0.02	0.11
EP2-3F	Uncrushed Outdoor Rock Stockpile (5)	PM	0.37	1.63
		PM_{10}	0.18	0.77
		$PM_{2.5}$	0.03	0.12
EP2-4F	Outdoor Landfill (5)	PM	1.21	5.28
		PM_{10}	0.57	2.50
		$PM_{2.5}$	0.09	0.38
EP2-5F	Uncrushed Outdoor Oversized Stockpile (5)	PM	0.45	1.99
		PM_{10}	0.21	0.94
		$PM_{2.5}$	0.03	0.14
EP2-6F	Crushed Outdoor Stockpile (5)	PM	0.21	0.93
		PM_{10}	0.10	0.44
		$PM_{2.5}$	0.02	0.07
EP-3	Feed to Primary Crusher (5)	PM	0.01	0.05
		PM_{10}	0.01	0.02
		$PM_{2.5}$	0.01	0.01
EP-5	Primary Crusher (5)	PM	0.02	0.03
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
EP-6	Crusher House (5)	PM	0.58	1.22
		PM_{10}	0.24	0.50
		$PM_{2.5}$	0.09	0.18

Emission Sources - Maximum Allowable Emission Rates

EP-6A	Hopper from Belt Conveyor No. 2 (5)	PM	0.01	0.03
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
EP-7	Screen House Emissions (5)	PM	1.26	3.91
		PM_{10}	0.44	1.37
		$PM_{2.5}$	0.19	0.59
EP-8	Crushed Outdoor Pile (5)	PM	0.21	0.93
		PM_{10}	0.10	0.44
		$PM_{2.5}$	0.02	0.07
EP-9	Transfer from Belt Conveyor No. 4 to Oversize Stockpile (5)	PM	0.16	0.50
		PM_{10}	0.06	0.18
		$PM_{2.5}$	0.02	0.08
EP-9A	Material Transfer into Pan Hopper (5)	PM	0.16	0.50
		PM_{10}	0.06	0.18
		$PM_{2.5}$	0.02	0.08
EP-9B	Pan Hopper Transfer to Belt Conveyor No. 5 (5)	PM	0.02	0.08
		PM_{10}	0.01	0.03
		$PM_{2.5}$	0.01	0.01
EP-11	Raymond Mill No. 1 Dust Collector 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-13	Rock Storage Tanks Building (5)	PM	0.10	0.31
		PM_{10}	0.04	0.11
		$PM_{2.5}$	0.02	0.05
EP-13A	Front-end Loader into Hopper (5)	PM	0.02	0.06
		PM_{10}	0.01	0.02
		$PM_{2.5}$	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

EP-13B	Transfer from Hopper onto Rock Belt (5)	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
EP-13C	Transfer from Belt Conveyor to Rock Chute (5)	PM	0.01	0.02
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
EP-14	Transfer from Belt Conveyor No. 2 to Belt Conveyor No. 3 (5)	PM	0.05	0.16
		PM_{10}	0.02	0.06
		$PM_{2.5}$	0.01	0.02
EP-15	Transfer from Belt Conveyor No. 3 to Hopper (5)	PM	0.05	0.16
		PM_{10}	0.02	0.06
		$PM_{2.5}$	0.01	0.02
EP-19	Landplaster Railcar Loading (5) (9)	PM	0.21	0.42
		PM_{10}	0.18	0.35
		$PM_{2.5}$	0.06	0.13
EP-20	Landplaster Truck Loading (5) (9)	PM	2.03	7.24
		PM_{10}	1.73	6.16
		$PM_{2.5}$	0.61	2.17
EP-21	Kettle Rock Bin Dust Collector Stack	PM	1.71	7.51
		PM_{10}	1.71	7.51
		$PM_{2.5}$	0.90	3.93
EP-22	Raymond Mill No. 2 Dust Collector 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

Emission Sources - Maximum Allowable Emission Rates

		CO	3.21	14.06
EP-23	Raymond Mill No. 3 Dust Collector 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	Raymond Mill No. 4 Dust Collector 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	Raymond Mill No. 5 Dust Collector 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 Stack	PM	0.17	0.75
		PM_{10}	0.17	0.75
		$PM_{2.5}$	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

Emission Sources - Maximum Allowable Emission Rates

		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
		$PM_{2.5}$	0.08	0.33
		VOC	0.06	0.24
		NO_x	1.00	4.38

Emission Sources - Maximum Allowable Emission Rates

		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	Stucco Bin No. 1 Dust Collector Stack	PM	0.39	1.73
		PM_{10}	0.39	1.73
		$PM_{2.5}$	0.21	0.90
EP- 37	Kettle Feed Tank Dust Collector Stack	PM	0.80	3.49
		PM_{10}	0.80	3.49
		$PM_{2.5}$	0.42	1.83
EP-40/45/46	Wet-end Seal, Board Line No. 1 Dryer Zones 1-5, and Dry-end Seal Combined Exhaust Stack	PM	15.03	65.83
		PM_{10}	12.75	55.84
		$PM_{2.5}$	8.90	37.11
		VOC	28.87	126.47
		NO_x	6.63	29.05
		SO_2	0.04	0.17
		CO (10)	31.39	137.48
		Formaldehyde (7)	0.52	2.27
		Methanol (7)	1.57	6.87

Emission Sources - Maximum Allowable Emission Rates

		Quinoline (7)	0.30	1.32
EP-47	Line No. 1 End Saw Dust Collector 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	0.19	0.06
		PM_{10}	0.16	0.05
		$PM_{2.5}$	0.06	0.02
EP-48	Paint Line and Holtec Saw Dust Collector Stack	PM	0.97	3.18
		PM_{10}	0.97	3.18
		$PM_{2.5}$	0.52	1.71
		VOC	0.71	3.12
		NH_3	1.65	7.23
EP-48A	Paint Line and Holtec Saw Fines Bulk Truck Loadout (5)	PM	0.38	0.01
		PM_{10}	0.32	0.01
		$PM_{2.5}$	0.11	0.01
EP-54	Stucco Bin No. 2 Dust Collector Stack	PM	0.39	1.73
		PM_{10}	0.39	1.73
		$PM_{2.5}$	0.21	0.90
EP-55	Line No. 2 Inline Curtain Coater Exhaust Stack	VOC	0.61	2.66
		NH_3	1.58	6.92
EP-56	Line No. 2 Pin Mixer (5)	PM	0.09	0.38
		PM_{10}	0.09	0.38
		$PM_{2.5}$	0.03	0.11
EP-59	Line No. 2 Germane Jet Exhaust Stack	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
EP-62	Board Line No. 2 Dryer Zones 1-3 and Wet-end Seal Combined Exhaust Stack	PM	13.87	60.74
		PM_{10}	11.64	50.99
		$PM_{2.5}$	8.27	36.22
		VOC	30.54	133.75

Emission Sources - Maximum Allowable Emission Rates

		NO_x	7.65	33.49
		SO_2	0.05	0.20
		CO (10)	30.64	134.21
		NH_3	5.53	24.22
		Formaldehyde (7)	0.51	2.21
		Methanol (7)	1.53	6.69
		Quinoline (7)	0.30	1.29
EP-63	Line No. 2 Vent Hood Dust Collector 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 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	0.12	0.01
		PM_{10}	0.10	0.01
		$PM_{2.5}$	0.04	0.01
EP-67	Landplaster Railcar Transfer to Underground Screw (5)	PM	0.35	0.42
		PM_{10}	0.30	0.35
		$PM_{2.5}$	0.11	0.13
EP-67A	Manual Transfer into Blender (5)	PM	0.01	0.03
		PM_{10}	0.01	0.03
		$PM_{2.5}$	0.01	0.01
EP-67B	Blender Dust Collector Fines Loadout (5)	PM	0.25	0.01
		PM_{10}	0.21	0.01
		$PM_{2.5}$	0.08	0.01
EP-73	Ball Mill Additives Dust Collector Stack	PM	0.56	2.44
		PM_{10}	0.56	2.44
		$PM_{2.5}$	0.29	1.28

Emission Sources - Maximum Allowable Emission Rates

EP-80	Starch Silo Dust Collector Stack	PM	0.17	0.75
		PM_{10}	0.17	0.75
		$PM_{2.5}$	0.09	0.39
EP-81	Line No. 2 End Saw Dust Collector Stack	PM	0.44	1.92
		PM_{10}	0.44	1.92
		$PM_{2.5}$	0.23	1.01
EP-81A	Line No. 2 Mill Dust Collector Fines Bulk Loadout (5)	PM	0.19	0.06
		PM_{10}	0.16	0.05
		$PM_{2.5}$	0.06	0.02
EP-88	Diesel Storage Tank A (5)	VOC	0.15	0.01
EP-89	Gasoline Storage Tank A (5)	VOC	4.10	0.24
EP-90	Diesel Storage Tank B (5)	VOC	0.12	0.01
EP-91	Gasoline Storage Tank B (5)	VOC	4.14	0.38
EP-92	Diesel Storage Tank C (5)	VOC	0.14	0.01
EP-93	Used Oil Storage Tank A (5)	VOC	0.01	0.01
EP-94	Used Oil Storage Tank B (5)	VOC	0.01	0.01
EP-96	Parts Washers (5)	VOC	0.73	3.22
EP-BV01	Building Vent - Roller Mills and Kettles (5)	PM	0.24	0.92
		PM_{10}	0.15	0.63
		$PM_{2.5}$	0.06	0.23
EP-BV02	Building Vent – Line No. 2 Dry Additives, Mat Printers, and Paper Heaters (5)	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		VOC	1.56	6.83
EP-BVo3	Building Vent - Coater Fugitives (5)	VOC	0.30	1.33
		NH_3	0.79	3.46
EP-BV04	Building Vent – Spray Paint Booth (5)	PM	0.03	0.14
		PM_{10}	0.03	0.14
		$PM_{2.5}$	0.01	0.02

Emission Sources - Maximum Allowable Emission Rates

EP-BV05	Building Vent – Paint Line Heaters, Holtec Saw, and Stamp Printer (5)	PM	0.18	0.59
		PM_{10}	0.18	0.59
		$PM_{2.5}$	0.07	0.21
		VOC	0.20	0.88
		NO_x	0.22	0.72
		SO_2	0.01	0.01
		CO	0.19	0.61
EP-BV06	Building Vent – Paint Line Heaters, Holtec Saw, and Stamp Printer (5)	PM	0.01	0.03
		PM_{10}	0.01	0.03
		$PM_{2.5}$	0.01	0.03
		VOC	2.85	12.49
		NO_x	0.13	0.43
		SO_2	0.01	0.01
		CO	0.11	0.37
		NH_3	6.60	28.91
EP-BV07	Building Vent – Line No. 1 Dry Additives, Mat Printers, and Paper Heaters (5)	PM	0.09	0.40
		PM_{10}	0.09	0.40
		$PM_{2.5}$	0.03	0.13
		VOC	1.61	7.02

(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 PM10 and PM2.5, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including PM2.5, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide

Emission Sources - Maximum Allowable Emission Rates

NH_3 - ammonia
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C

(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) 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.
(8) During startup of the electrostatic precipitator (EPN EP-27), the emission will be authorized by 30 TAC 106.263.
(9) Emission Point Numbers EP-19 and EP-20 cannot operate simultaneously.
(10) 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: DRAFT