

Emission Sources - Maximum Allowable Emission Rates

Permit Number 20094

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		Emission Rates (7)
			Name (3) lbs/hour	TPY (4)
1	Primary Railcar Unloading to Stockpiles A, B, D, E, or Truck (5, 6)	PM	1.71	2.41
		PM ₁₀	0.81	1.14
		PM _{2.5}	0.12	0.17
2	Primary Barge Unloading to Stockpile B, D, or Truck (5, 6)	PM	0.69	0.80
		PM ₁₀	0.33	0.40
		PM _{2.5}	0.05	0.06
3	Secondary Barge Unloading to Truck (5, 6)	PM	0.45	0.22
		PM ₁₀	0.21	0.11
		PM _{2.5}	0.03	0.02
4	Truck Unloading to Stockpiles (5, 6)	PM	0.19	0.22
		PM ₁₀	0.09	0.10
		PM _{2.5}	0.01	0.02
5	Unloading Baghouse Stack	PM	0.42	1.82
		PM ₁₀	0.35	1.55
		PM _{2.5}	0.12	0.55
6	Secondary Railcar Unloading to Stockpiles B, C, D, or E (5, 6)	PM	0.74	0.75
		PM ₁₀	0.35	0.36
		PM _{2.5}	0.05	0.05
7	Ship Loading from Stockpile A, B, C, D, and E (5, 6)	PM	3.14	5.70
		PM ₁₀	1.49	2.70
		PM _{2.5}	0.23	0.41

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SP-A	Stockpile A (5)	PM	-.--	4.41
		PM ₁₀	-.--	2.20
		PM _{2.5}	-.--	0.31
SP-B	Stockpile B (5)	PM	-.--	3.66
		PM ₁₀	-.--	1.83
		PM _{2.5}	-.--	0.26
SP-C	Stockpile C (5)	PM	-.--	1.83
		PM ₁₀	-.--	0.91
		PM _{2.5}	-.--	0.13
SP-D	Stockpile D (5)	PM	-.--	3.18
		PM ₁₀	-.--	1.59
		PM _{2.5}	-.--	0.22
SP-E	Stockpile E (5)	PM	-.--	3.47
		PM ₁₀	-.--	1.73
		PM _{2.5}	-.--	0.24
8	Potash Handling (5, 6)	PM	0.37	0.01
		PM ₁₀	0.14	0.01
		PM _{2.5}	0.03	<0.01
	Ammonium Sulfate Handling (5, 6)	PM	0.37	0.01
		PM ₁₀	0.14	0.01
		PM _{2.5}	0.03	<0.01
	Urea Handling (5, 6)	PM	1.85	0.06
		PM ₁₀	0.68	0.02
		PM _{2.5}	0.13	<0.01
	Barite Ore Handling (5, 6)	PM	1.85	0.06
		PM ₁₀	0.68	0.02

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		PM _{2.5}	0.13	<0.01
	Bentonite Clay Handling (5, 6)	PM	1.85	0.06
		PM ₁₀	0.68	0.02
		PM _{2.5}	0.13	<0.01
	Coal/Petcoke Handling (5, 6)	PM	0.76	0.03
		PM ₁₀	0.36	0.01
		PM _{2.5}	0.05	<0.01
Permit by Rule (PBR) sources incorporated by reference. Sources remain authorized by the PBR(s) as listed below:				PM ₁₀
PBR 92655				PM _{2.5}
S-1	Pig Iron Screening (5)	PM	0.12	<0.01
		PM ₁₀	0.04	<0.01
		PM _{2.5}	0.01	<0.01
B-1	Pig Iron Boxing (5)	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
LOAD-1	Pig Iron Material Handling (5)	PM	0.06	0.01
		PM ₁₀	0.02	<0.01
		PM _{2.5}	<0.01	<0.01
SP-PI	Pig Iron Stockpile (5)	PM	-.--	0.10
		PM ₁₀	-.--	0.03
		PM _{2.5}	-.--	0.01
LOAD-2	Magnetite Material Handling (5)	PM	1.56	0.06
		PM ₁₀	0.57	0.02
		PM _{2.5}	0.11	<0.01
SP-MG	Magnetite	PM	-.--	0.11

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		PM ₁₀	-.--	0.05
		PM _{2.5}	-.--	0.01
LOAD-3	Ceramic Slag Material Handling (5)	PM	0.09	0.01
		PM ₁₀	0.03	<0.01
		PM _{2.5}	0.01	<0.01
SP-CS	Ceramic Slag Stockpile (5)	PM	-.--	0.04
		PM ₁₀	-.--	0.02
		PM _{2.5}	-.--	<0.01

- (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 - 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
- (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) EPNs include the following transfer points:
EPN1: UL, TR-1, TR-2, TR-3, TR-3a, TR-4, TR-4a, TR-5, TR-8, RS, H1, H2, and RDT
EPN2: UL, TR-1, TR-2, TR-3, TR-3a, RS, H1, and H2
EPN3: BH2, TR-9, TR-10 and H3
EPN4: TDS
EPN6: UL2, TR-5, TR-8, TR-11, and TR-12
EPN7: TR-13 through TR-30, SL, and BC-15
EPN 8: Load 1, Load 2, S-1, and B-1
- (7) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date: December 20, 2013