

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 (8)	
				Name (3) lbs/hour		TPY (4)	
PHASE I (6)							
1	Railcar Unloading to SP-A, SP-B and SP-C (5)	PM	1.65		2.50		
		PM ₁₀	0.78		1.18		
		PM _{2.5}	0.12		0.18		
1a	Secondary Railcar Unloading to SP-B, SP-C and SP-D (5)	PM	0.98		1.56		
		PM ₁₀	0.46		0.74		
		PM _{2.5}	0.07		0.11		
2	Primary Barge Unloading (5)	PM	1.49		3.89		
		PM ₁₀	0.70		1.84		
		PM _{2.5}	0.11		0.28		
3	Secondary Barge Unloading to Trucks (5)	PM	0.45		0.22		
		PM ₁₀	0.21		0.11		
		PM _{2.5}	0.03		0.02		
4	Truck Unloading (5)	PM	0.19		0.15		
		PM ₁₀	0.09		0.07		
		PM _{2.5}	0.01		0.01		
5	Unloading Baghouse Stack	PM	0.42		1.82		
		PM ₁₀	0.35		1.55		
		PM _{2.5}	0.12		0.55		
7	Vessel Loading (5)	PM	2.17		3.82		
		PM ₁₀	1.03		1.80		
		PM _{2.5}	0.16		0.27		

Emission Sources - Maximum Allowable Emission Rates

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
PHASE II (7)				
1	Railcar Unloading to SP-A and SP-B (5)	PM	2.64	3.20
		PM ₁₀	1.31	1.51
		PM _{2.5}	0.20	0.23
2	Primary Barge Unloading (5)	PM	0.76	0.67
		PM ₁₀	0.36	0.32
		PM _{2.5}	0.05	0.05
3	Secondary Barge Unloading (5)	PM	0.45	0.22
		PM ₁₀	0.21	0.11
		PM _{2.5}	0.03	0.02
4	Truck Unloading (5)	PM	0.19	0.15
		PM ₁₀	0.09	0.07
		PM _{2.5}	0.01	0.01
5	Unloading Baghouse Stack	PM	0.42	1.82
		PM ₁₀	0.35	1.55

Emission Sources - Maximum Allowable Emission Rates

		PM _{2.5}	0.12	0.55
6	Railcar Unloading to SP-1 and SP-2 (5)	PM	2.94	1.63
		PM ₁₀	1.39	0.77
		PM _{2.5}	0.21	0.12
7	Vessel Loading (5)	PM	3.22	5.24
		PM ₁₀	1.52	2.48
		PM _{2.5}	0.23	0.38
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-1	Stockpile 1 (5)	PM	-.--	3.27
		PM ₁₀	-.--	1.64
		PM _{2.5}	-.--	0.23
SP-2	Stockpile 2 (5)	PM	-.--	7.79
		PM ₁₀	-.--	3.89
		PM _{2.5}	-.--	0.54
PHASE II (Commodities)				
8	Potash Handling (5)	PM	0.37	0.01
		PM ₁₀	0.14	0.01
		PM _{2.5}	0.03	<0.01
	Ammonium Sulfate Handling (5)	PM	0.37	0.01
		PM ₁₀	0.14	0.01
		PM _{2.5}	0.03	<0.01

Emission Sources - Maximum Allowable Emission Rates

	Urea Handling (5)	PM	1.85	0.06
		PM ₁₀	0.68	0.02
		PM _{2.5}	0.13	<0.01
	Barite Ore Handling (5)	PM	1.85	0.06
		PM ₁₀	0.68	0.02
		PM _{2.5}	0.13	<0.01
	Bentonite Clay Handling (5)	PM	1.85	0.06
		PM ₁₀	0.68	0.02
		PM _{2.5}	0.13	<0.01
	Coal/Petcoke Handling (5)	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

Emission Sources - Maximum Allowable Emission Rates

		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 Stockpile (5)	PM	---	0.11
		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) PHASE I material handling limited to coal and petcoke only with designated EPNs represented by the following transfer points:
 - EPN1: UL, YG, H1, H2, TR-1, TR-2, TR-3 and FS-3
 - EPN1a: UL-2, TR-T1 through TR-T6 and TR-11
 - EPN2: BH1, TR-5, TT, TR-3, FS-2 and FS-4
 - EPN3: BH2, H3, TR-6, and TR-7
 - EPN4: TDS
 - EPN7: FCB, ROP, DD1, DD2, FHC, TR-8, TR-10 through TR-15, and FHD and includes Dockside Emissions from transfer points, C-3, F-ES and S-W1B.
- (7) PHASE II material handling limited to coal and petcoke only except for commodity materials as designated in EPN 8. EPNs in PHASE II include the following transfer points:

Emission Sources - Maximum Allowable Emission Rates

EPN1: UL, TR-1 through TR-4, RS, H1, H2, TH1, TTTR-1 TTR-2, TTR-3 and RDT

EPN2: BH1, TR-4 through TR-8, and TT1

EPN3: BH2, TR-9, TR-10 and H3

EPN4: TDS

EPN6: UL3 and TR-12 through TR-17

EPN7: TR-18 through TR-23, TR-25, TR-27 through TR-36, SL and TC-03.

- (8) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date: November 15, 2012