

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 8907

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. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

		AIR CONTAMINANTS DATA		
Emission	Source	Air Contaminant		
	<u>Emission Rates *</u>			
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	<u>TPY</u>
10-1	Gaylord Scrubber #1 Stack	VOC	0.018	0.079
10-2	Gaylord Scrubber #2 Stack	VOC	0.018	0.079
10-3	Gaylord Scrubber #3 Stack	VOC	0.018	0.079
10-4	Gaylord Scrubber #4 Stack	VOC	0.018	0.079
11B-1	Building 11B Fan #1	PM/PM ₁₀	0.001	0.004
11B-2	Building 11B Fan #2	PM/PM ₁₀	0.001	0.004
23-1	Building 23 Fan	PM/PM ₁₀	0.046	0.190
		VOC	0.033	0.138
		CO	0.004	0.015
		NOx	0.24	1.00
		SOx	0.56	2.35
24-1	Iron Sand Silo Nos. 1	PM	0.06	0.26
		PM ₁₀	0.049	0.216
24-2	Iron Sand Silo Nos. 2	PM	0.06	0.26
		PM ₁₀	0.049	0.216
24-3	Iron Sand Silo Nos. 3	PM	0.06	0.26
		PM ₁₀	0.049	0.216
24-4	Iron Sand Silo Nos. 4	PM	0.06	0.26
		PM ₁₀	0.049	0.216

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Emission Source		Air Contaminant		
<u>Emission Rates *</u>				
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
32-1	Building 32 Roof Vent #1 IRSSCRAPYARD	PM PM ₁₀	0.974 0.584	2.516 1.51
32-2	Building 32 Roof Vent #2 IRSCHAND01, IRSCHAND02, and BUNDLDRY01	PM PM ₁₀ VOC CO NO _x SO ₂	0.674 0.543 0.252 8.00 18.80 0.120	2.362 2.069 1.10
47AB-1	47AB Dust Collector Stack 28SANDSYS, 28ACCUMCON, and 28SHAKEOUT	PM/PM ₁₀ VOC	4.50 14.018	19.656 36.234
47C-1	47C Dust Collector Stack CHANFCEA, CHANFCEB, and CHANFCEC	PM/PM ₁₀ VOC	3.429 0.276	14.976 0.717
47I-1	47I Dust Collector Stack SHOBLAST01, SHOBLAST02, SHOBLAST03, and IRGRIND47I	PM/PM ₁₀	2.571	11.232
47JK-1	47JK Dust Collector Stack IREIF02, IREIF04, IREIF05, IREIF06, and IREIF07	PM/PM ₁₀ Pb	6.857 0.025	29.952 0.064
47QR-1	47QR Dust Collector Stack (26SANDSYS, 26APOUR, 26BPOUR, 26AMOLCOOL, 26BMOLCOOL, 26SHAKEOUT, 26ACCUMCON, and 26SPRUE)	PM/PM ₁₀ VOC NO _x SO ₂	6.00 33.761 0.234 0.467	26.208 42.832 0.604 1.208
4A-1	Building 4A Roof Fan #1	PM PM ₁₀	0.380 0.001	0.002

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Emission Rates *				
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		VOC	0.625	0.003
		NO _x	0.425	0.002
		SO _x	0.625	0.003
68A-1	68A Dust Collector Stack (SHOTBLAST07 and SHOTBLAST08)	PM/PM ₁₀	2.229	9.734
68BC-1	68B Dust Collector Stack 26CSANDSYS, 26CPOUR, 26DPOUR, 26CMOLCOOL, 26DMOLCOOL, 26CSHAKOUT	PM/PM ₁₀	4.286	18.720
		VOC	19.743	51.030
		NO _x	0.234	0.604
		SO _x	0.467	1.208
68J-1	68J Dust Collector Stack 26CSANDSYS, 26CSHAKOUT, 26CACCUCON	PM/PM ₁₀	3.00	13.104
		VOC	14.018	36.234
68N-1	68N Dust Collector Stack SHOTBLAST05	PM/PM ₁₀	1.029	4.493
9-1	Building 9 Fan #1 CHANFCEC	PM	1.416	2.44
		PM ₁₀	1.133	1.952
		VOC	0.009	0.015
9-2	Building 9 Fan #2 CHANFCEA and CHANFCEB	PM	1.404	4.148
		PM ₁₀	1.123	3.318
		VOC	0.004	0.007
9-3	Building 9 Fan #3 CHANFCEA and CHANFCEB	PM	1.404	4.148
		PM ₁₀	1.123	3.318
		VOC	0.004	0.010
9-4	Building 9 Fan #4 CHANFCEA and	PM	1.404	4.148
		PM ₁₀	1.123	3.318

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<u>Emission Rates *</u>				
Point No.	(1) Name (2)	Name (3)	lb/hr	TPY
	CHANFCEB	VOC	0.004	0.010
9C-1	Building 9C Stack Fan #1 (28POUR)	PM	8.177	21.137
		PM ₁₀	4.001	10.342
		VOC	0.409	1.057
		NO _x	0.029	0.075
		SO _x	0.058	0.151
9C-2	Building 9C Stack Fan #2 (28POUR)	PM	8.177	21.137
		PM ₁₀	4.001	10.342
		VOC	0.409	1.057
		NO _x	0.029	0.075
		SO _x	0.058	0.151
9C-3	Building 9C Stack Fan #3 (28POUR)	PM	8.177	21.137
		PM ₁₀	4.001	10.342
		VOC	0.409	1.057
		NO _x	0.029	0.075
		SO _x	0.058	0.151
9C-4	Building 9C Stack Fan #4 (28POUR)	PM	8.177	21.137
		PM ₁₀	4.001	10.342
		VOC	0.409	1.057
		NO _x	0.029	0.075
		SO _x	0.058	0.151
9C-5	Building 9C Stack #5 28MOLDCOOL	PM	3.271	8.455
		PM ₁₀	1.612	4.167
		VOC	0.245	0.634
9C-6	Building 9C Stack #6 28MOLDCOOL	PM	3.271	8.455
		PM ₁₀	1.612	4.167

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Emission Source		Air Contaminant		
Emission Rates *				
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		VOC	0.245	0.634
9C-7	Building 9C Stack #7 28MOLDCOOL	PM	3.271	8.455
		PM ₁₀	1.612	4.167
		VOC	0.245	0.634
9C-8	Building 9C Stack #8 28MOLDCOOL	PM	3.271	8.455
		PM ₁₀	1.612	4.167
		VOC	0.245	0.634
9C-9	Building 9C Stack #9 28MOLDCOOL	PM	3.271	8.455
		PM ₁₀	1.612	4.167
		VOC	0.245	0.634
9D-1	Building 9D Fan #1 IRONFCE06 and IRONFCE07	PM	0.042	0.110
		PM ₁₀	0.041	0.105
		Pb	0.002	0.005
9D-2	Building 9D Fan #2 IRONFCE02	PM	0.021	0.055
		PM ₁₀	0.020	0.052
		Pb	0.021	0.003
9D-4	Building 9D Fan #4 IRONFCE04	PM	0.021	0.055
		PM ₁₀	0.020	0.052
		Pb	0.021	0.003
9D-5	Building 9D Fan #5 IRONFCE04	PM	0.021	0.055
		PM ₁₀	0.020	0.052
		Pb	0.021	0.003
BS01VE NT	Bond Silo #1 Vent	PM	0.009	0.041
		PM ₁₀	0.008	0.034

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Emission Source		Air Contaminant		
Emission Rates *				
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
BS02VE NT	Bond Silo #2 Vent	PM	0.004	0.016
		PM ₁₀	0.003	0.014
ETA-1	ETA Baghouse Stack 26CSANDSYS	PM/PM ₁₀	3.857	16.848
M-10	Building 10 Roof Vent (SHELLCORE, LAEMPE01, LAEMPE02, LAEMPE03, and LAEMPE04)	VOC	0.023	0.098
		NO _x	0.50	0.25
		SO ₂	0.32	0.16
M-11A	Building 11A Roof Vent (SHOBLAST01, SHOBLAST02, SHOBLAST03, SHOBLAST05)	PM	1.34	3.464
		PM ₁₀	0.134	0.346
M-11B	Building 11B Roof Vent 28SPRUE, SHOBLAST07, SHOBLAS08	PM	0.67	1.721
		PM ₁₀	0.067	0.172
M-11C	Building 11C Roof Vent 26ACCUMCON, 26SPRUE, and SPCRUSH01	PM	0.065	0.099
		PM ₁₀	0.054	0.082
M-15	Building 15 Roof Vent IRGRIND47I	PM	1.003	2.593
		PM ₁₀	0.10	0.259
M-9	Building 9 Roof Vent 26SANDSYS, 26CSANDSYS, 26APOUR, 26BPOUR, 26CPOUR, 26DPOUR, 26AMOLCOOL, 26BMOLCOOL, 26CMOLCOOL 26DMOLCOOL, 26SHAKEOUT,	PM	4.511	11.703
		PM ₁₀	1.036	2.714
		VOC	0.682	1.763
		NO _x	0.005	0.012
		SO _x	0.009	0.628

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M-9C	26CSHAKOUT, 26CACUMCON, 26CSPRUE			
	Building 9C Roof Vent	PM	1.119	2.891
	28SANDSYS, 28POUR,	PM ₁₀	0.243	0.628
	28MOLDCOOL, 28SHAKEOUT,	VOC	0.171	0.441
	28ACCUMCON	NO _x	0.001	0.003
		SOx	0.002	0.006
4-1	Pattern Shop Pattern	VOC	0.029	0.128

Washing Tank Stack

PM/PM₁₀

- (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 PM₁₀
 PM₁₀ - particulate matter equal to or less than 10 microns in diameter.
 Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
 VOC - volatile organic compounds as defined in General Rule 101.1
 SO₂ - sulfur dioxide
 NO_x - total oxides of nitrogen
 CO - carbon monoxide
 Pb - lead
- (4) Fugitive emissions are an estimate only.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule, maximum electric arc furnace

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
(EAF) melt rates, and maximum electric induction furnace (EIF) melt
rates:

Hrs/day 24 Days/week 6 Weeks/year 50

Maximum EAF Melt Rates: Tons/hour 9 Tons/year 25,000

Maximum EIF Melt Rates: Tons/hour 50 Tons/year 280,000

Dated _____