

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 664

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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
RV-1	Melt Area Wall Vent-1 (5) FINs DO and SPF	PM	1.24	1.63
		PM ₁₀	0.43	0.56
		NO _x	0.07	0.20
		VOC	<0.01	<0.01
		CO	0.06	0.16
		SO ₂	<0.01	<0.01
		Pb	<0.001	<0.001
RV-2	VPMF Roof Vent-2 (5)(6) FINs M1, M2, and M3,	PM	1.18	1.53
		PM ₁₀	0.45	0.60
		NO _x	0.08	0.11
		VOC	2.09	2.73
		CO	4.87	6.34
		SO ₂	0.16	0.21
		Pb	0.002	0.002
RV-3	VPMF Roof Vent-3 (5)(6) FINs M1, M2, and M3,	PM	1.18	1.53
		PM ₁₀	0.46	0.60
		NO _x	0.08	0.11
		VOC	2.09	2.73
		CO	4.87	6.34
		SO ₂	0.16	0.21
		Pb	0.002	0.002
B1	Shakeout Fabric Filter (5) FIN S1	PM ₁₀	5.79	24.40
		VOC	19.46	25.37
		Pb	0.12	0.15
B3	Melt Fabric Filter (5) FINs D1 and D4	PM ₁₀	See Note 7	
		Pb		

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
ASFF	FINs M2A and PSMP (4)(5)	PM	0.17	0.22
		PM ₁₀	0.09	0.11
		NO _x	0.03	0.04
		SO ₂	0.06	0.07
		CO	11.59	15.11
		VOC	24.81	32.00
		Acetone	3.66	4.77
		Pb	<0.001	<0.001
B2	Sand Prep Fabric Filter FINs GSNSS and GSSRS	PM ₁₀	4.46	18.77
C1	Isocure Scrubber (5) FIN ICM	PM ₁₀	<0.01	<0.01
		VOC	0.21	0.27
C2	Bin Vent Filter (5) FINs ICM and GSNSS	PM ₁₀	0.09	0.23
E2	ASF Abrasive Blast Cleaning Baghouse, FIN E1	PM ₁₀	0.51	2.25
24	Grinding Baghouse (5) FIN CF	PM ₁₀	3.34	10.86
		Pb	<0.01	<0.01
HTBF	Heat Treat Bldg Fug (4) FIN HTF	PM ₁₀	0.02	0.06
		NO _x	0.26	0.78
		SO ₂	<0.01	<0.01
		VOC	0.01	0.04
		CO	0.22	0.66
		Pb	<0.0001	<0.0001
OPH	Other process Heaters (4) FIN OPH	PM ₁₀	0.02	0.06
		NO _x	0.26	0.78
		SO ₂	<0.01	<0.01
		VOC	0.01	0.04

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
23	ASF Sand System Baghouse (5) FINs ASNSS, ASSRS, 10, and SRH	CO	0.22	0.66
		Pb	<0.0001	<0.0001
		PM ₁₀	3.07	10.99
		VOC	3.49	4.55
		NO _x	0.94	1.32
		CO	0.79	1.17
		SO ₂	<0.01	0.01
		Pb	0.001	0.001
19A	Sand Reclaimer Baghouse FIN ASSRS	PM ₁₀	0.03	0.11
C3	No Bake Sand System Baghouse (5) FINs ASSRS and NBMCM	PM ₁₀	0.01	0.03
		VOC	14.77	19.25
CP	Casting Surface Coating (4)(5) FIN CP	VOC	42.74	74.59
WSDH	Waste Sand Handling (4) FIN WSDH	PM	1.82	2.37
		PM ₁₀	0.55	0.71
WSGH	Waste Slag Handling (4) WSGH	PM	0.03	0.04
		PM ₁₀	0.01	0.01
PSF	Pattern Shop Fug (4) FIN PS	PM	0.12	0.15
		PM ₁₀	0.06	0.08
4	No Bake Sand System Baghouse FIN ASSRS	PM ₁₀	0.01	0.03
SB-1	VPM Blast Cleaning Baghouse South (FIN GSBC)	PM ₁₀	0.51	2.25
SB-2	VPM Blast Cleaning Baghouse North (FIN GSBC)	PM ₁₀	0.51	2.25

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- (1) Emission point identification - either specific equipment designation or emission point number from a 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.
NO_x - total oxides of nitrogen
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
CO - carbon monoxide
SO₂ - sulfur dioxide
Pb - lead
- (4) Fugitive emissions are an estimate only
- (5) Includes Hazardous Air Pollutants as reflected in permit application
- (6) Individual emission rates are an estimate, but total emission from RV-2 and RV-3 shall not exceed the sum of the emission rates shown for both EPNs.
- (7) Total PM₁₀ and Pb emissions from EPNs B1 and B3, i.e., sum of the emissions from both EPN, shall not exceed the values shown for EPN B1.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule and parameters:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hours/year 8,760

Furnace Melt Rate: 19.1 tph and 49,750 tpy

Green Sand Foundry Operation Throughput: 40,000 pph and 42,300 tpy

Air Set Foundry Operation Throughput: 7,000 pph and 7,463 tpy

Fabric Filter annual emissions based on 8,760 hours per year.

Grinding operations limited to 6,500 hours per year.

Dated_____