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	1.44
		PM_{10}	0.43	0.50
		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	1.36
		PM_{10}	0.46	0.53
		NO_x	0.08	0.09
		VOC	2.09	2.41
		CO	4.87	5.61
		SO_2	0.16	0.19
		Pb	<0.01	<0.01
RV-3	VPMF Roof Vent-3 (5)(6) FINs M1, M2, and M3,	PM	1.18	1.36
		PM_{10}	0.46	0.53
		NO_x	0.08	0.09
		VOC	2.09	2.41
		CO	4.87	5.61
		SO_2	0.16	0.19
		Pb	<0.01	<0.01
B1	Shakeout Fabric Filter (5) FIN S1	PM_{10}	5.79	24.40
		VOC	19.46	22.44
		Pb	0.12	0.13
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)	Emission Rates * lb/hr	TPY
ASFF	FINs M2A and PSMP (4)(5)	PM	0.17	0.19
		PM_{10}	0.09	0.10
		NO_x	0.03	0.03
		SO_2	0.06	0.07
		CO	11.59	13.37
		VOC	24.81	28.30
		Acetone	3.66	4.22
		Pb	<0.01	<0.01
B2	Sand Prep Fabric Filter	PM_{10}	4.46	18.77
	FINs GSNSS and GSSRS	Pb	<0.01	<0.01
C1	Isocure Scrubber (5)	PM_{10}	<0.01	<0.01
	FIN ICM	VOC	0.21	0.24
C2	Bin Vent Filter (5)	PM_{10}	0.09	0.23
	FINs ICM and GSNSS			
E2	ASF Abrasive Blast Cleaning	PM_{10}	0.51	2.25
	Baghouse, FIN E1			
24	Grinding Baghouse (5)	PM_{10}	3.34	10.86
	FIN CF	Pb	<0.01	<0.001
HTBF	Heat Treat Bldg Fug (4)	PM_{10}	0.02	0.06
	FIN HTF	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)	PM_{10}	0.02	0.06

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
	FIN OPH	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
23	ASF Sand System Baghouse (5) FINs ASNSS, ASSRS, 10, and SRH	PM_{10}	3.07	10.99
		VOC	3.49	4.04
		NO_x	0.94	1.39
		CO	0.79	1.17
		SO_2	0.01	0.01
		Pb	0.002	0.002
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	17.03
CP	Casting Surface Coating (4)(5) FIN CP	VOC	19.43	22.40
WSDH	Waste Sand Handling (4) FIN WSDH	PM	1.82	2.10
		PM_{10}	0.55	0.63
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	0.13
		PM_{10}	0.06	0.07
4	No Bake Sand System Baghouse FIN ASSRS	PM_{10}	0.01	0.03

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
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
WH, DOO, CO, and HVAC	Powder Coating Heater (8) Burners	PM_{10}	0.14	0.38
		NO_x	1.81	4.99
		SO_x	0.01	0.03
		VOC	0.10	0.27
		CO	1.52	4.19
		Pb	<0.01	<0.01
All EPNs	All Sources	Single HAP		<5.00
		Total/Multiple HAPS		<15.00

(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 PM_{10}
PM_{10} - 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
SO_2 - sulfur dioxide
Pb - lead
SO_x - sulfur oxides
(4) Fugitive emissions are an estimate only
(5) Includes Hazardous Air Pollutants as reflected in permit application

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(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 PM_{10} 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.

(8) Emission values are the sum of the emissions from the wash heater, dry off oven, cure oven, and heating, air conditioning and ventilation burners

* 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 44,000 tpy

Green Sand Foundry Operation Throughput: 32,500 pph and 37,400 tpy

Air Set Foundry Operation Throughput: 6,000 pph and 6,600 tpy

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

Grinding operations limited to 6,500 hours per year.

Dated June 17, 2004