

## 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)	<u>Emission Rates</u>	
			lb/hr	TPY*
24	Casting Cleaning and Finishing Baghouse- FIN CF	PM/PM <sub>10</sub>	3.34	3.28
		Pb	2.91E-04	2.85E-04
		HAPs (Max)	3.63E-04	3.56E-04
		HAPs (Total)	7.71E-04	7.55E-04
25	Flex-Tend Casting Finishing Baghouse FIN-FTCF	PM/PM <sub>10</sub>	1.07	0.71
		Pb	6.10E-05	5.03E-05
		HAPs (max)	7.62E-05	6.29E-05
		HAPs (Total)	1.62E-04	1.33E-04
B1	VPM Shakeout Baghouse FIN-S1	PM/PM <sub>10</sub>	2.89	2.68
		VOC	22.90	22.44
		Pb	0.0025	0.00245
		HAPs (max)	0.97	0.95
		HAPs(Total)	3.73	3.66
27	ASF Casting and Shakeout Baghouse FINs-GO, G1, G2,G4, GM2, GS1, SRH, ASSRS, NBMCM, PSMP, and NFH (ASF Pre-Heaters and Ladle Heaters)	PM/PM <sub>10</sub>	11.14	8.49
		CO	17.16	15.82
		NOx	1.18	2.95
		SO2	0.09	0.08
		VOC	63.17	52.24
		Pb	0.0023	0.0019
		HAPs (Max)	3.00	2.48
		HAPs (Total)	4.35	3.59
		Acetone	5.40	4.45
30	ASF Abrasive Cleaning Baghouse FIN-NBC	PM/PM <sub>10</sub>	1.71	1.13

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B2	VPM Sand System Baghouse FINs-GSNSS and GSSRS	PM/PM <sub>10</sub>	4.46	4.20
B3	VPM Melting Area Baghouse FINs-D1, D2, D4, and SPF (Scrap Pre-Heat Furnace and Ladle Heaters)	PM/PM <sub>10</sub> CO NO <sub>x</sub> SO <sub>2</sub> Pb VOC HAPs (Max) HAPs (Total)	3.34 0.16 0.20 0.0012 0.11 0.011 0.11 0.14	2.73 0.72 0.86 0.0052 0.11 0.047 0.11 0.14
C1	VPM Isocure Core Making Scrubber FIN-ICM	VOC HAPs (Max) HAPs (Total)	0.025 0.0014 0.00202	0.022 0.0012 0.00174
C2	VPM Sand Bin Vent Filter FINs-GSNSS and ICM	PM/PM <sub>10</sub>	0.086	0.0504
C4	ASF Isocure Core Making Scrubber FIN-GICM	PM PM <sub>10</sub> VOC HAPs (Max) HAPs (Total)	0.046 0.0069 0.066 0.0037 0.0050	0.04 0.0059 0.057 0.0032 0.0045
C5	ASF Isocure Sand Bin Vent Filter FIN-GICM	PM/PM <sub>10</sub>	0.086	0.044
C6	ASF Fresh Sand Bin Vent Filter FIN-ASNSS	PM/PM <sub>10</sub>	0.086	0.042

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CP	Casting Surface (4)	VOC	5.00	4.90
	Coating Fugitives	HAPs (Max)	3.21	3.15
	FIN-CP	HAPs (Total)	4.44	4.35
HBF	Hatebur Building (4)	VOC	2.96	2.90
	Fugitives	HAPs(max)	0.34	0.33
	FINs-CPSC, SDH	HAPs(Total)	0.34	0.33
FTSF	Flex-tend Shop (4)	VOC	2.34	2.29
	Fugitives-FIN CPE	HAPs (max)	1.30	1.27
		HAPs(Total)	1.52	1.49
CT1	Two Cooling Towers (5) at VPM Foundry	VOC	0.68	0.67
	FIN-CT1	HAPs(max)	0.68	0.67
		HAPs (Total)	0.68	0.67
CT2	Three Cooling Towers (5) at ASF	VOC	1.02	1.00
	FIN-CT2	HAPs(max)	1.02	1.00
		HAPs(Total)	1.02	1.00
CT3	Cooling Tower at Hatebur Building	VOC	0.34	0.33
		HAPs(max)	0.34	0.33
		HAPS (Total)	0.34	0.33
FTH	Flex-Tend Shop	PM/PM <sub>10</sub>	0.0641	0.281
	Heaters	CO	0.71	3.10
	FIN-FTH (2 Powder Coat Ovens)	NOx	0.84	3.69
		SO <sub>2</sub>	0.005	0.022
		VOC	0.05	0.20
		Pb	4.22E-06	1.85E-05
MSS	Maintenance Startup	PM/PM <sub>10</sub>	0.50	0.04
SCPH	Spin Coat Process	PM/PM <sub>10</sub>	0.02	0.06
	Heaters	CO	0.22	0.66
	FIN-SCPH (Pre-wash Heater, Post -wash	NOx	0.26	0.78
		SO <sub>2</sub>	0.0016	0.0047

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	Dryer and Paint Curing Oven)	Pb	1.32E-06	3.92E-06
		VOC	0.015	0.043
PCH	Powder Coating Heaters	PM/PM <sub>10</sub>	0.14	0.60
	FIN-PCH (2 Washer Heaters, 2 HVAC Furnaces, 2 Curing Ovens, 1 Dry-Off Oven, and 1 Hook Burn-Off Oven)	NOx	1.81	7.94
		CO	1.52	6.67
		SO <sub>2</sub>	0.011	0.0477
		VOC	0.10	0.44
		Pb	9.07E-06	3.97E-05
		HAPs (Max)	0.08	0.29
		HAPs (Total)	0.08	0.31
PSF	Pattern Shop Fugitives (4)	PM	0.14	0.13
	FIN-PS and SDPS	PM <sub>10</sub>	0.07	0.067
		VOC	1.02	1.00
RV-1	VPM Melting Area Wall Vent	PM	1.24	1.22
	FIN-DO	PM <sub>10</sub>	0.42	0.41
RV-VPM	VPM Foundry Roof Vents	PM	2.77	2.71
	FINs-M1, M2, and M3	PM <sub>10</sub>	1.07	1.05
		CO	11.45	11.22
		NOx	0.19	0.19
		SO <sub>2</sub>	0.38	0.37
		VOC	4.93	4.83
		Pb	0.0034	0.0033
		HAPs (Max)	1.31	1.28
		HAPs (Total)	1.90	1.86
SB-1	VPM Blast Cleaning Baghouse South	PM/PM <sub>10</sub>	0.51	0.50
	FIN-GSBC			
SB-2	VPM Blast Cleaning Baghouse North	PM/PM <sub>10</sub>	0.51	0.50
	FIN-GSBC			

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SB-3	Shot Blast Dust Collector FIN-SB-3	PM/PM <sub>10</sub>	0.026	0.113
MBF	Maintenance Fugitives (4) FIN-SDM (Solvent Degreaser-Maintenance Bldg.)	VOC	0.34	0.33
STG	Gasoline Storage Tank FIN-STG	VOC	7.32	0.15
STD	Diesel Storage Tank FIN-STD	VOC	0.046	6.45E-04
WSDH	Waste Sand Handling FIN-WSDH	PM PM <sub>10</sub>	0.28 0.0832	0.27 0.081
WSGH	Waste Slag Handling FIN-WSGH	PM PM <sub>10</sub>	0.0038 0.0011	0.0044 0.0013

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
 

VOC	-	volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO <sub>x</sub>	-	total oxides of nitrogen
SO <sub>2</sub>	-	sulfur dioxide
PM	-	particulate matter, suspended in the atmosphere, including PM <sub>10</sub> and PM <sub>2.5</sub>
PM <sub>10</sub>	-	particulate matter equal to or less than 10 microns in diameter

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PM <sub>2.5</sub>	-	particulate matter equal to or less than 2.5 microns in diameter
CO	-	carbon monoxide
Pb	-	lead
HAP	-	hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations (40 CFR) Part 63, Subpart C

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

(5) Total allowable emissions for all sources emitting at EPN.

\* Compliance with annual emission limits is based on a rolling 12-month period.

Dated May11, 2011