

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, 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 Name (3)	Emission Rates	
			lbs/hour	TPY (4)
24	Casting Cleaning and Finishing Baghouse FIN CF	PM	3.34	3.28
		PM ₁₀	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	1.07	0.71
		PM ₁₀	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	2.89	2.68
		PM ₁₀	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 and ASF Melting Area Baghouse FINs-GO, G1, G2, G4, GM2, GS1,	PM	11.14	8.49

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	NBMCM, PSMP, and NFH (ASF Pre-Heaters and Ladle Heaters)			
		PM ₁₀	11.14	8.49
		CO	16.36	14.09
		NO _x	0.24	0.89
		SO ₂	0.08	0.07
		VOC	63.17	52.13
		Pb	0.0023	0.0019
		HAPS (Max)	3.00	2.48
		HAPS (Total)	4.35	3.59
		Acetone	9.55	9.45
30	ASF Abrasive Cleaning and ASF Sand Reclaimer Baghouses FIN-NBC, SRH, ASSRS	PM	3.77	4.89
		PM ₁₀	3.77	4.89
		CO	0.79	1.73
		NO _x	0.94	2.06
		SO ₂	0.0057	0.012
		VOC	0.052	0.113
		Pb	4.7E-06	1.03E-05
B2	VPM Sand System Baghouse FINs-GSNSS and GSSRS	PM	4.46	4.20
		PM ₁₀	4.46	4.20
B3	VPM Melting Area Baghouse FINs-D1, D2, D4, and SPF (Scrap Pre-Heat Furnace and Ladle Heaters)	PM	3.34	2.73
		PM ₁₀	3.34	2.73
		CO	0.16	0.72
		NO _x	0.20	0.86
		SO ₂	0.0012	0.0052
		VOC	0.011	0.047

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		Pb	0.11	0.11
		HAPS (Max)	0.11	0.11
		HAPS (Total)	0.14	0.14
C1	VPM Isocure Core Making Scrubber FIN-ICM	VOC	0.025	0.022
		HAPS (Max)	0.0014	0.0012
		HAPS (Total)	0.00202	0.00174
C2	VPM Sand Bin Vent Filter FINs-GSNSS and ICM	PM	0.086	0.0504
		PM ₁₀	0.086	0.0504
C4	ASF Isocure Core Making Scrubber FIN-GICM	PM	0.046	0.04
		PM ₁₀	0.0069	0.0059
		VOC	0.066	0.057
		HAPS (Max)	0.0037	0.0032
		HAPS (Total)	0.0050	0.0045
C5	ASF Isocure Sand Bin Vent Filter FIN-GICM	PM	0.086	0.044
		PM ₁₀	0.086	0.044
C6	ASF Fresh Sand Bin Vent Filter FIN-ASNSS	PM	0.086	0.042
		PM ₁₀	0.086	0.042
CP	Casting Surface (5) Coating Fugitives FIN-CP	VOC	5.00	4.90
		HAPS (Max)	3.21	3.15
		HAPS (Total)	4.44	4.35
HBF	Hatebur Building (5) Fugitives FINs-CPSC, SDH	VOC	2.96	2.90
		HAPS (Max)	0.34	0.33
		HAPS (Total)	0.34	0.33
FTSF	Flex-tend Shop	VOC	2.34	2.29

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	(5) Fugitives-FIN CPE			
		HAPS (Max)	1.30	1.27
		HAPS (Total)	1.52	1.49
CT1	Two Cooling Towers (6) at VPM Foundry FIN-CT1	VOC	0.68	0.67
		HAPS (Max)	0.68	0.67
		HAPS (Total)	0.68	0.67
CT2	Three Cooling Towers (6) at ASF FIN-CT2	VOC	1.02	1.00
		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 Heaters FIN-FTH (2 Powder Coat Ovens)	PM	0.0641	0.281
		PM ₁₀	0.0641	0.281
		CO	0.71	3.10
		NO _x	0.84	3.69
		SO ₂	0.005	0.022
		VOC	0.05	0.20
		Pb	4.22E-06	1.85E-05
MSS	Maintenance Startup	PM	0.50	0.04
		PM ₁₀	0.50	0.04

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SCPH	Spin Coat Process Heaters FIN-SCPH (Pre-wash Heater, Post -wash Dryer and Paint Curing Oven)	PM	0.02	0.06
		PM ₁₀	0.02	0.06
		CO	0.22	0.66
		NO _x	0.26	0.78
		SO ₂	0.0016	0.0047
		VOC	0.015	0.043
		Pb	1.32E-06	3.92E-06
PCH	Powder Coating Heaters FIN-PCH (2 Washer Heaters, 2 HVAC Furnaces, 2 Curing Ovens, 1 Dry-Off Oven, and 1 Hook Burn-Off Oven)	PM	0.14	0.60
		PM ₁₀	0.14	0.60
		CO	1.52	6.67
		NO _x	1.81	7.94
		SO ₂	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 (5) FIN-PS and SDPS	PM	0.14	0.13
		PM ₁₀	0.07	0.067
		VOC	1.02	1.00
RV-1	VPM Melting Area Wall Vent FIN-DO	PM	1.24	1.22
		PM ₁₀	0.42	0.41

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RV-VPM	VPM Foundry Roof Vents FINs-M1, M2, and M3	PM	2.77	2.71
		PM ₁₀	1.07	1.05
		CO	11.45	11.22
		NO _x	0.19	0.19
		SO ₂	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 FIN-GSBC	PM	0.51	0.50
		PM ₁₀	0.51	0.50
SB-2	VPM Blast Cleaning Baghouse North FIN-GSBC	PM	0.51	0.50
		PM ₁₀	0.51	0.50
SB-3	Shot Blast Dust Collector FIN-SB-3	PM	0.026	0.113
		PM ₁₀	0.026	0.113
MBF	Maintenance Fugitives (5) 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	PM	0.28	0.27

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		PM ₁₀	0.0832	0.081
WSGH	Waste Slag Handling FIN-WSGH	PM	0.0038	0.0044
		PM ₁₀	0.0011	0.0013

- (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) 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_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - 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
 - 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 Part 63, Subpart C
- (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) Total allowable emissions for all sources emitting at EPN.

Date: July 2, 2012