

# 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 (9)	
			lbs/hour	TPY (4)
24	Casting Cleaning and Finishing Baghouse FIN CF	PM	3.34	-
		PM <sub>10</sub>	3.34	-
		PM <sub>2.5</sub>	3.34	-
		Pb	2.8 E-04	-
25	Flex-Tend Casting Finishing Baghouse FIN-FTCF	PM	1.07	-
		PM <sub>10</sub>	1.07	-
		PM <sub>2.5</sub>	1.07	-
		Pb	6.10 E-05	-
B1	VPM Shakeout Baghouse FIN-S1	PM	2.87	-
		PM <sub>10</sub>	2.87	-
		PM <sub>2.5</sub>	2.87	-
		VOC	21.75	-
		Pb	8.5 E-04	-
27	ASF Casting and Shakeout and ASF Melting Area Baghouse FINs-GO, G1, G2, G4, GM2, GS1, NBMCM, PSMP, and NFH	PM	5.57	-
		PM <sub>10</sub>	5.57	-
		PM <sub>2.5</sub>	5.57	-
		CO	16.33	-
		NO <sub>x</sub>	0.20	-
		SO <sub>2</sub>	0.08	-
		VOC	58.19	-

## Emission Sources - Maximum Allowable Emission Rates

		Pb	0.0045	-
		Acetone	15.08	-
30	ASF Abrasive Cleaning and ASF Sand Reclaimer Baghouses FIN-NBC, SRH, ASSRS	PM	3.77	-
		PM <sub>10</sub>	3.77	-
		PM <sub>2.5</sub>	3.77	-
		CO	0.63	-
		NO <sub>x</sub>	0.75	-
		SO <sub>2</sub>	0.0045	-
		VOC	0.04	-
		Pb	7.8 E-07	-
B2	VPM Sand System Baghouse FINs-GSNSS and GSSRS	PM	4.46	-
		PM <sub>10</sub>	4.46	-
		PM <sub>2.5</sub>	4.46	-
B3	VPM Melting Area Baghouse FINs-D1, D2, D4, and SPF (Scrap Pre-Heat Furnace and Ladle Heaters)	PM	3.34	-
		PM <sub>10</sub>	3.34	-
		PM <sub>2.5</sub>	3.34	-
		CO	0.16	-
		NO <sub>x</sub>	0.20	-
		SO <sub>2</sub>	0.0012	-
		VOC	0.11	-
		Pb	0.10	-
C1	VPM Isocure Core Making Scrubber FIN-ICM	VOC	0.42	-
C2	VPM Sand Bin Vent Filter FINs-GSNSS	PM	0.086	-

## Emission Sources - Maximum Allowable Emission Rates

	and ICM			
		PM <sub>10</sub>	0.086	-
		PM <sub>2.5</sub>	0.086	-
C4	ASF Isocure Core Making Scrubber FIN-GICM	VOC	0.073	-
C5	ASF Isocure Sand Bin Vent Filter FIN-GICM	PM	0.086	-
		PM <sub>10</sub>	0.086	-
		PM <sub>2.5</sub>	0.086	-
C6	ASF Fresh Sand Bin Vent Filter FIN-ASNSS	PM	0.086	-
		PM <sub>10</sub>	0.086	-
		PM <sub>2.5</sub>	0.086	-
CP	Casting Surface Coating Fugitives (5) FIN-CP	VOC	5.43	-
HBFB	Hatebur Building Fugitives (5) FINs-CPSC, SDH	VOC	3.94	-
FTSF	Flex-tend Shop Fugitives (5) FIN CPE	VOC	0.51	-
CT1	Two Cooling Towers (6) at VPM Foundry FIN-CT1	VOC	0.07	-
CT2	Three Cooling Towers at ASF (6) FIN-CT2	VOC	0.11	-
CT3	Cooling Tower at Hatebur Building FIN-CT3	VOC	0.04	-

## Emission Sources - Maximum Allowable Emission Rates

FTH	Flex-Tend Shop Heaters FIN-FTH (2 Powder Coat Ovens)	PM	0.064	-
		PM <sub>10</sub>	0.064	-
		PM <sub>2.5</sub>	0.064	-
		CO	0.71	-
		NO <sub>x</sub>	0.84	-
		SO <sub>2</sub>	0.0051	-
		VOC	0.05	-
		Pb	4.2 E-06	-
GRV1-3	ASF Roof Vents 1-3  FINs GO and NFH	PM	0.11	-
		PM <sub>10</sub>	0.039	-
		PM <sub>2.5</sub>	0.031	-
		CO	0.033	-
		NO <sub>x</sub>	0.039	-
		SO <sub>2</sub>	0.00024	-
		Pb	4.1 E-08	-
		VOC	0.0022	-
GRV4	ASF Roof Vent 4  FINs G1, G2, and G4	PM	0.11	-
		PM <sub>10</sub>	0.05	-
		PM <sub>2.5</sub>	0.039	-
		Pb	2.2 E-04	-
		VOC	0.001	-
GRV5-6	ASF Roof Vents 5-6  FINs GS1 and SRH	PM	0.025	-
		PM <sub>10</sub>	0.018	-
		PM <sub>2.5</sub>	0.015	-
		CO	0.16	-

## Emission Sources - Maximum Allowable Emission Rates

		NO <sub>x</sub>	0.19	-
		SO <sub>2</sub>	0.0011	-
		Pb	9.6 E-06	-
		VOC	0.25	-
MSS	Maintenance MSS1 And MSS2	PM	2.90	-
		PM <sub>10</sub>	2.90	-
		PM <sub>10</sub>	2.90	-
		VOC	8.00	-
SCPH	Spin Coat Process Heaters  FIN-SCPH (Pre- Wash Heaters, Post-Wash Dryer and Paint Curing Oven)	PM	0.02	-
		PM <sub>10</sub>	0.02	-
		PM <sub>2.5</sub>	0.02	-
		CO	0.22	-
		NO <sub>x</sub>	0.26	-
		SO <sub>2</sub>	0.0016	-
		VOC	0.015	-
		Pb	1.3 E-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	-
		PM <sub>10</sub>	0.14	-
		PM <sub>2.5</sub>	0.14	-
		CO	1.52	-
		NO <sub>x</sub>	1.81	-
		SO <sub>2</sub>	0.011	-
		VOC	0.10	-
		Pb	9.1E-06	-
PSF	Pattern Shop Fugitives (5) FIN-PS and	PM	0.14	-

## Emission Sources - Maximum Allowable Emission Rates

	SDPS			
		PM <sub>10</sub>	0.07	-
		PM <sub>2.5</sub>	0.03	-
		VOC	0.98	-
		Acetone	0.66	-
RV-1	VPM Melting Area Wall Vent FINs-DO, D1, D2, and D4	PM	1.77	-
		PM <sub>10</sub>	0.66	-
		PM <sub>2.5</sub>	0.51	-
RV-VPM	VPM Foundry Roof Vents FINs-M1, M2, M3, S1, and GSNSS	PM	3.89	-
		PM <sub>10</sub>	0.91	-
		PM <sub>2.5</sub>	0.59	-
		CO	11.45	-
		NO <sub>x</sub>	0.19	-
		SO <sub>2</sub>	0.38	-
		VOC	6.07	-
		Pb	0.0018	-
SB	VP Blast Cleaning Baghouse	PM	1.98	-
		PM <sub>10</sub>	1.98	-
		PM <sub>2.5</sub>	1.98	-
SB-3	Shot Blast Dust Collector FIN-SB-3	PM	0.026	-
		PM <sub>10</sub>	0.026	-
		PM <sub>2.5</sub>	0.026	-
MBF	Maintenance Shop Fugitives (5) FIN-SDM (Solvent Degreaser-	VOC	0.18	-

Emission Sources - Maximum Allowable Emission Rates

	Maintenance Bldg.)			
STG	Gasoline Storage Tank FIN-STG	VOC	7.32	-
STD	Diesel Storage Tank FIN-STD	VOC	0.043	-
WSDH	Waste Sand Handling FIN-WSDH	PM	0.23	-
		PM <sub>10</sub>	0.069	-
		PM <sub>2.5</sub>	0.058	-
WSGH	Waste Slag Handling FIN-WSGH	PM	0.0038	-
		PM <sub>10</sub>	0.0011	-
		PM <sub>2.5</sub>	0.00017	-
RV-1, RV-VPM, GRV1-3, GRV4, GRV5-6, B1, B2, B3, C1, C2, 24, 25, 27, 30, SB, PCH, FTH, SCPH, STD, C4, C5, C6, STG, CP, HBF, WSDH, FTSF, PSF, WSGH, SB-3, CT1, CT2, CT3, MBF, and MSS	FINs DO, GO, SPF, M1, M2, M3, D1, D2, G1, G2, PSMP, D4, G4, GM2, S1, GS1, GSBC, NBC, CF, FTFCF, SRH, PCH, NFH, FTH, SCPH, GSNSS, ASNSS, GSSRS, ASSRS, ICM, GICM, CP, WSDH, PS, WSGH, NBMCM, SB-3, CT1, CT2, CT3, SDPS, SDM, SDH, STG, STD, CPSC, CPE, and MSS	PM	-	31.08
		PM <sub>10</sub>	-	27.05
		PM <sub>2.5</sub>	-	26.56
		CO	-	39.25
		NO <sub>x</sub>	-	16.41
		SO <sub>2</sub>	-	0.52
		VOC	-	91.57
		Pb	-	0.10
		Acetone	-	14.28
		HAP (MAX) (7 & 8)	-	4.33
		HAPs (Total) (8)	-	14.81

- (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) 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

Emission Sources - Maximum Allowable Emission Rates

PM	- total particulate matter, suspended in the atmosphere, including PM <sub>10</sub> and PM <sub>2.5</sub> , as represented
PM <sub>10</sub>	- total particulate matter equal to or less than 10 microns in diameter, including PM <sub>2.5</sub> , as represented
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 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
- (7) Any individual HAP.
- (8) HAPS and individual HAP emissions are identified and quantified in the permit application.
- (9) Planned startup and shutdown emissions are included. Maintenance activities, except as specified in Special Condition Nos. 11, 24, and 25, are not authorized by this permit and will need separate authorization, unless the activity can meet the conditions of 30 TAC § 116.119.

Date: October 31, 2016