

Emission Sources - Maximum Allowable Emission Rates

Permit Number 108281

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 (6)	
			lbs/hour	TPY (4)
RHFS	Rotary Hearth Furnace Stack (RHF) (7, 9 & 10)	VOC	1.22	2.51
		NO _x	4.39	9.00
		CO	5.06	10.38
		PM	1.69	3.46
		PM ₁₀	1.69	3.46
		PM _{2.5}	1.69	3.46
		SO ₂	0.13	0.27
		NH ₃ (7)	1.02	4.21
HT1S	Heat Treatment No. 1 Stack (Austenitizing Furnace No. 1 and Tempering Furnace No. 1) (7, 9 & 10)	VOC	0.58	1.39
		NO _x	2.10	4.98
		CO	2.42	5.74
		PM	0.81	1.91
		PM ₁₀	0.81	1.91
		PM _{2.5}	0.81	1.91
		SO ₂	0.06	0.15
		NH ₃ (7)	0.49	2.02
HT2S	Heat Treatment No. 2 Stack (Austenitizing Furnace No. 2 and Tempering Furnace No. 2) (7, 9 & 10)	VOC	0.33	0.58
		NO _x	1.18	2.08
		CO	1.36	2.39
		PM	0.45	0.80

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		PM ₁₀	0.45	0.80
		PM _{2.5}	0.45	0.80
		SO ₂	0.04	0.06
		NH ₃ (7)	0.27	1.11
CL1PS1	Coating Application Cabin Stack No. 1 (API1CT)	VOC	6.02	6.90
		PM	0.08	0.09
		PM ₁₀	0.08	0.09
		PM _{2.5}	0.08	0.09
CL2PS1	Coating Application Cabin Stack No. 2 (API2CT)	VOC	6.02	6.90
		PM	0.08	0.09
		PM ₁₀	0.08	0.09
		PM _{2.5}	0.08	0.09
PL	Coating Application Cabin Stack No. 3 (PRMCT)	VOC	6.81	3.33
		PM	0.08	0.04
		PM ₁₀	0.08	0.04
		PM _{2.5}	0.08	0.04
EG1	Emergency Generator No. 1 (9)	VOC	3.10	0.16
		NO _x	3.10	0.16
		CO	2.72	0.14
		PM	0.16	<0.008
		PM ₁₀	0.16	<0.008
		PM _{2.5}	0.16	<0.008
		SO ₂	0.97	0.05

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EG2	Emergency Generator No. 2 (9)	VOC	3.10	0.16
		NO _x	3.10	0.16
		CO	2.72	0.14
		PM	0.16	<0.008
		PM ₁₀	0.16	<0.008
		PM _{2.5}	0.16	<0.008
		SO ₂	0.97	0.05
FP1	Fire Pump (9)	VOC	0.67	0.03
		NO _x	0.67	0.03
		CO	0.82	0.04
		PM	0.05	<0.003
		PM ₁₀	0.05	<0.003
		PM _{2.5}	0.05	<0.003
		SO ₂	0.21	0.01
EG3	Diesel Engine Pump (9)	VOC	1.46	0.07
		NO _x	1.46	0.07
		CO	1.27	0.06
		PM	0.07	<0.004
		PM ₁₀	0.07	<0.004
		PM _{2.5}	0.07	<0.004
		SO ₂	0.45	0.02
PQFS	PQFS Fumes Stack (PQF and BFPQF)	PM	2.96	8.30
		PM ₁₀	2.96	8.30
		PM _{2.5}	2.96	8.30
SRMS	SRMS Fumes Stack	PM	0.98	2.73

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		PM ₁₀	0.98	2.73
		PM _{2.5}	0.98	2.73
SHTBS	Premium Line –Shotblasting Stack	PM	0.05	0.15
		PM ₁₀	0.05	0.15
		PM _{2.5}	0.05	0.15
CT1	Cooling Tower 1	PM	0.15	0.60
		PM ₁₀	0.12	0.48
		PM _{2.5}	<0.0009	<0.004
CT2	Cooling Tower 2	PM	0.05	0.20
		PM ₁₀	0.04	0.16
		PM _{2.5}	<0.0003	≤0.002
CT3	Cooling Tower 3	PM	0.08	0.32
		PM ₁₀	0.07	0.28
		PM _{2.5}	<0.0005	<0.002
CT4	Cooling Tower 4	PM	0.05	0.20
		PM ₁₀	0.04	0.16
		PM _{2.5}	<0.0003	≤0.002
SRS1	Premium Line Stress Relief Stack 1 (9)	VOC	0.47	0.62
		PM	0.03	0.02
		PM ₁₀	0.008	<0.006
		PM _{2.5}	<0.002	<0.001
		NH ₃	0.02	0.01
SRS2	Premium Line Stress Relief Stack 2 (9)	VOC	0.47	0.62
		PM	0.03	0.02
		PM ₁₀	0.008	<0.006

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		PM _{2.5}	<0.002	<0.001
		NH ₃	0.02	0.01
PRMPS	Premium Line Phosphatizing Stack (PRMPH) (9)	VOC	4.97	3.19
FUGHRM	Hot Rolling Mill Fugitives (BRXI, BRXL, GPHL, GPHX, RMBC, RMEC, PQF, and SRM) (5)	PM	0.90	2.19
		PM ₁₀	0.90	2.19
		PM _{2.5}	0.75	1.91
FUGFIN	Finishing Line Fugitives (API1, API2, FBEV, FGND, FCUT, and REPEMI) (5, 8, 9, & 10)	VOC	9.09	21.44
		PM	0.63	1.251
		PM ₁₀	0.62	1.23
		PM _{2.5}	0.23	0.50
		NH ₃	0.04	0.03
FUGPRM	Premium Line Fugitives (PRM) (5, 8, & 9)	VOC	6.46	6.59
		PM	<0.002	<0.001
		PM ₁₀	0.0004	<0.0003
		PM _{2.5}	<0.0001	<0.00005
		NH ₃	0.05	0.04
FUGHRM, FUGFIN, FUGPRM	Hydraulic Fluid and Oil Evaporation (5)	VOC	0.56	1.25
FUGFIN FUGPRM	Miscellaneous Marking and Stenciling (MPI) (5, 8, & 9)	VOC	5.37	12.25
		PM	0.13	0.32
		PM ₁₀	0.04	0.10
		PM _{2.5}	<0.008	0.02
FUGFL	Vehicle Refueling	VOC	0.51	<0.004
FUGGLN	Gasoline Tank-Vehicles	VOC	16.58	0.88
FUGDL1	Diesel Tank-Vehicles	VOC	0.07	<0.003
FUGDL2	Diesel Tank-EG#1	VOC	<0.009	<0.00004

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FUGDL3	Diesel Tank-EG#2	VOC	<0.009	<0.00004
FUGDL4	Diesel Tank-Motor Pump	VOC	<0.004	<0.00004
FUGDL5	Diesel Tank-Fire Pump	VOC	<0.002	<0.00004
FUGSCR1	Rotary Hearth Furnace SCR Fugitives (5)	NH ₃	0.004	0.02
FUGSCR2	Heat Treat 1 SCR Fugitives (5)	NH ₃	0.004	0.02
FUGSCR3	Heat Treat 2 SCR Fugitives (5)	NH ₃	0.004	0.02

- (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_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
- NH₃ - ammonia
- (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) Planned maintenance, startup, and shutdown emissions are included.
- (7) All modes of operation.
- (8) Ammonia emissions from miscellaneous marking and stenciling are included as part of Finishing Line and Premium Line fugitives.
- (9) Hazardous Air pollutants (HAPs) included in VOC emissions.
- (10) HAPs included in PM/PM₁₀/PM_{2.5} emissions.

Date: June 14, 2016