

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-Normal Operation	VOC	1.22	2.21
		NO _x	4.39	7.95
		CO	1.00	9.16
		PM	1.69	3.06
		PM ₁₀	1.69	3.06
		PM _{2.5}	1.69	3.06
		SO ₂	0.13	0.24
		NH ₃ (lb/yr)	1.02	4.21
RHFS	Rotary Hearth Furnace Stack-MSS/Idle Ramp-Up	VOC	0.22	0.29
		NO _x	1.30	1.21
		CO	1.83	2.40
		PM	0.31	0.40
		PM ₁₀	0.31	0.40
		PM _{2.5}	0.31	0.40
		SO ₂	0.02	0.03
HT1S	Heat Treatment No. 1 Stack-Normal (Austenitizing Furnace No. 1 and Tempering Furnace No. 1)	VOC	0.58	1.29
		NO _x	2.10	4.62
		CO	2.42	5.13
		PM	0.81	1.78
		PM ₁₀	0.81	1.78

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		PM _{2.5}	0.81	1.78
		SO ₂	0.06	0.14
		NH ₃ (7)	0.49	2.02
HT1S	Heat Treatment No. 1 Stack-MSS/ Idle/Ramp-up	VOC	0.11	0.10
		NO _x	0.40	0.40
		CO	0.89	0.80
		PM	0.15	0.13
		PM ₁₀	0.15	0.13
		PM _{2.5}	0.15	0.13
		SO ₂	0.01	0.01
HT2S	Heat Treatment No. 2 Stack-Normal (Austenitizing Furnace No. 2 and Tempering Furnace No. 2)	VOC	0.33	0.49
		NO _x	1.18	1.75
		CO	1.36	2.01
		PM	0.45	0.67
		PM ₁₀	0.45	0.67
		PM _{2.5}	0.45	0.67
		SO ₂	0.04	0.05
		NH ₃ (7)	0.27	1.11
HT2S	Heat Treatment No. 2 Stack-MSS/ Idle/Ramp-up	VOC	0.06	0.09
		NO _x	0.26	0.38
		CO	0.52	0.75
		PM	0.09	0.12
		PM ₁₀	0.09	0.12
		PM _{2.5}	0.09	0.12
		SO ₂	<0.007	<0.003

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TOS1	Thermal Oxidizer Stack No. 1	VOC	0.42	0.65
		NO _x	0.22	0.50
		CO	0.15	0.37
		PM	0.35	0.54
		PM ₁₀	0.34	0.54
		PM _{2.5}	0.34	0.53
		SO ₂	<0.001	<0.003
TOS1	Thermal Oxidizer Stack No. 1 Maintenance	VOC	25.62	0.31
		PM	0.33	<0.004
		PM ₁₀	0.33	<0.004
		PM _{2.5}	0.33	<0.004
TOS2	Thermal Oxidizer Stack No. 2	VOC	0.42	0.65
		NO _x	0.22	0.50
		CO	0.15	0.37
		PM	0.35	0.54
		PM ₁₀	0.34	0.54
		PM _{2.5}	0.34	0.53
		VOC	<0.001	<0.003
TOS2	Thermal Oxidizer Stack No. 2 Maintenance	VOC	25.62	0.31
		PM	0.33	<0.004
		PM ₁₀	0.33	<0.004
		PM _{2.5}	0.33	<0.004
TOS3	Thermal Oxidizer Drying Chamber Stack No. 3	VOC	0.44	0.66
		NO _x	0.22	0.50
		CO	0.15	0.37

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		PM	0.35	0.54
		PM ₁₀	0.34	0.54
		PM _{2.5}	0.34	0.53
		SO ₂	<0.001	<0.003
TOS3	Thermal Oxidizer Stack No. 3 Maintenance	VOC	2.15	0.34
		PM	0.33	<0.004
		PM ₁₀	0.33	<0.004
		PM _{2.5}	0.33	<0.004
EG1	Emergency Generator No. 1	VOC	3.10	0.16
		NO _x	3.10	0.16
		CO	2.72	0.14
		PM	0.16	<0.004
		PM ₁₀	0.16	<0.004
		PM _{2.5}	0.16	<0.004
EG2	Emergency Generator No. 2		0.97	0.05
		VOC	3.10	0.16
		NO _x	3.10	0.16
		CO	2.72	0.14
		PM	0.16	<0.004
		PM ₁₀	0.16	<0.004
		PM _{2.5}	0.16	<0.004
FP1	Fire Pump	SO ₂	0.97	0.05
		VOC	0.67	0.03
		NO _x	0.67	0.03
		CO	0.82	0.04

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		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	VOC	1.1	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	PM	2.62	7.34
		PM ₁₀	2.62	7.34
		PM _{2.5}	2.62	7.34
SRMS	SRMS Fumes Stack	PM	0.93	2.60
		PM ₁₀	0.93	2.60
		PM _{2.5}	0.93	2.60
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

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		PM _{2.5}	<0.0003	0.001
CT3	Cooling tower 3	PM	0.08	0.32
		PM ₁₀	0.07	0.28
		PM _{2.5}	<0.0003	<0.002
CT4	Cooling Tower 4	PM	0.08	0.20
		PM ₁₀	0.04	0.16
		PM _{2.5}	<0.0003	0.001
SRS1	Premium Line Stress Relief 1	VOC	0.47	0.62
		PM	0.03	0.02
		PM ₁₀	0.008	<0.006
		PM _{2.5}	<0.002	<0.001
SRS2	Premium Line Stress Relief 2 Stack	VOC	0.47	0.62
		PM	0.03	0.02
		PM ₁₀	0.008	<0.006
		PM _{2.5}	<0.002	<0.001
PRMPS	Premium Line Phosphatizing Stack	VOC	4.97	3.19
SCP	Scale (5)	PM	<0.01	0.02
		PM ₁₀	<0.005	<0.01
		PM _{2.5}	0.001	<0.003
FUGHRM	Hot Rolling Mill Fugitives (5)	PM	0.90	2.19
		PM ₁₀	0.90	2.19
		PM _{2.5}	0.75	1.91
FUGFIN	Finishing Line Fugitives (5)	VOC	19.34	37.16
		PM	0.60	1.21
		PM ₁₀	0.59	1.19

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		PM _{2.5}	0.20	0.46
FUGPRM	Premium Line Fugitives (5)	VOC	11.58	14.45
		PM	<0.002	<0.001
		PM ₁₀	0.000	<0.0003
		PM _{2.5}	<0.0007	<0.00005
FUGHRM, FUGFIN, FUGPRM	Hydraulic Fluid and Oil Evaporation (5)	VOC	0.56	1.25
FUGFIN FUGPRM	Miscellaneous Marking and Stenciling (5)	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
FUFDL1	Diesel Tank-Vehicles	VOC	0.07	<0.003
FUGDL2	Diesel Tank-EG#1	VOC	<0.009	<0.00004
FUGDL3	Diesel Tank-EG#2	VOC	<0.009	<0.00004
FUGDL4	Diesel Tank-EG#3	VOC	<0.004	<0.00004
FUGDL5	Diesel Tank-Fire Pump	VOC	<0.002	<0.00004
FUGSCR1	Rotary Hearth Furnace SCR	NH ₃	0.004	0.02
FUGSCR2	Heat Treat 1 SCR	NH ₃	0.004	0.02
FUGSCR3	Heat Treat 2 SCR	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

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PM	- total particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5} , as represented
PM ₁₀	- 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
NH ₃	- 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.

Date: _____

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