

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 Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour	TPY (4)
RHFS	Rotary Hearth Furnace Stack (RHF)	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	1.02	4.19
HT1S	Heat Treatment No. 1 Stack (Austenitizing Furnace No. 1 and Tempering Furnace No. 1)	VOC	0.58	1.60
		NO _x	2.10	5.76
		CO	2.42	6.64
		PM	0.81	2.22
		PM ₁₀	0.81	2.22
		PM _{2.5}	0.81	2.22
		SO ₂	0.06	0.17
		NH ₃	0.49	2.00
HT2S	Heat Treatment No. 2 Stack (Austenitizing Furnace No. 2 and Tempering Furnace No. 2)	VOC	0.33	0.58
		NO _x	1.18	2.08
		CO	1.36	2.39
		PM	0.45	0.80
		PM ₁₀	0.45	0.80
		PM _{2.5}	0.45	0.80
		SO ₂	0.04	0.06
		NH ₃	0.27	1.13
PQFS	PQF Fumes Baghouse Stack (PQF and BFPQF)	PM	2.96	10.39
		PM ₁₀	2.96	10.39
		PM _{2.5}	2.96	10.39

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SRM Fumes Baghouse Stack (BFSSRM)	PM	0.98	3.42	
		PM ₁₀	0.98	3.42
		PM _{2.5}	0.98	3.42
CT1	Cooling Tower 1	PM	0.15	0.60
		PM ₁₀	0.12	0.48
		PM _{2.5}	<0.01	<0.01
CT2	Cooling Tower 2	PM	0.05	0.20
		PM ₁₀	0.04	0.16
		PM _{2.5}	<0.01	<0.01
CT3	Cooling Tower 3	PM	0.08	0.32
		PM ₁₀	0.07	0.28
		PM _{2.5}	<0.01	<0.01
CT4	Cooling Tower 4	PM	0.05	0.20
		PM ₁₀	0.04	0.16
		PM _{2.5}	<0.01	<0.01
SHTBS	Premium Line Shotblasting Baghouse Stack	PM	0.05	0.20
		PM ₁₀	0.05	0.20
		PM _{2.5}	0.05	0.20
SRS1	Premium Line – Stress Relief 1	VOC	0.47	0.62
		PM	0.03	0.02
		PM ₁₀	0.01	0.01
		PM _{2.5}	<0.01	<0.01
SRS2	Premium Line – Stress Relief 2 Stack	VOC	0.47	0.62
		PM	0.03	0.02
		PM ₁₀	0.01	0.01
		PM _{2.5}	<0.01	<0.01
PL	Premium Line – Coating Application Cabin Stack	VOC	6.81	3.33
		PM	0.08	0.04
		PM ₁₀	0.08	0.04

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		PM _{2.5}	0.08	0.04
PRMPS	Premium Line Phosphatizing Stack (PRMPH) (9)	VOC	4.97	3.19
TOS1	API Casing Line 1 and Drying Oven Thermal Oxidizer #1 Stack	VOC	0.62	0.84
		VOC (maintenance)	30.80	0.37
		NO _x	0.11	0.23
		CO	0.01	0.12
		PM	0.50	0.07
		PM ₁₀	0.50	0.07
		PM _{2.5}	<0.01	0.07
		SO ₂	<0.01	<0.01
TOS2	API Casing Line 2 and Drying Oven Thermal Oxidizer #2 Stack	VOC	0.62	0.84
		VOC (maintenance)	30.80	0.37
		NO _x	0.11	0.23
		CO	0.01	0.12
		PM	0.50	0.07
		PM ₁₀	0.50	0.07
		PM _{2.5}	<0.01	0.07
		SO ₂	<0.01	<0.01
FUGMNT	Maintenance Paint Booth Stack	VOC	4.63	2.78
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
FUGFIN, FUGPRM	Miscellaneous Marking and Stenciling Fugitives (MPI) (5)	VOC	9.69	18.05
		PM	0.67	1.61
		PM ₁₀	0.21	0.51
		PM _{2.5}	0.04	0.09
		Exempt Solvent	2.80	2.67
FUGFIN	Extremity Coating Fugitives (CL1BE,	VOC	2.11	3.18

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FUGFIN	Finishing Line Funitives (API1 API2)	PM	0.05	0.08
		PM ₁₀	0.05	0.08
		PM _{2.5}	0.05	0.08
		VOC	9.09	21.44
		Exempt Solvent	0.66	1.78
FUGPRM	Premium Line Funitives	VOC	6.46	6.59
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
FUGHRM	Hot Rolling Mill Funitives	PM _{2.5}	<0.01	<0.01
		PM	1.98	3.41
		PM ₁₀	1.98	3.41
		PM _{2.5}	1.44	2.43
		VOC	3.10	0.16
EG1	Emergency Generator No. 1	NO _x	3.10	0.16
		CO	2.72	0.14
		PM	0.16	<0.01
		PM ₁₀	0.16	<0.01
		PM _{2.5}	0.16	<0.01
		SO ₂	0.97	0.05
		VOC	3.10	0.16
EG2	Emergency Generator No. 2	NO _x	3.10	0.16
		CO	2.72	0.14
		PM	0.16	<0.01
		PM ₁₀	0.16	<0.01
		PM _{2.5}	0.16	<0.01
		SO ₂	0.97	0.05
		VOC	3.60	0.18
EG4	Emergency Generator No. 3	NO _x	3.60	0.18
		CO	3.15	0.16

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EG5	Emergency Generator No. 4	PM	0.18	0.01
		PM ₁₀	0.18	0.01
		PM _{2.5}	0.18	0.01
		SO ₂	1.84	0.09
		VOC	5.90	0.29
		NO _x	5.90	0.29
		CO	5.15	0.26
EG6	Emergency Generator No. 5	PM	0.29	<0.01
		PM ₁₀	0.29	<0.01
		PM _{2.5}	0.29	<0.01
		SO ₂	1.12	0.06
		VOC	3.60	0.18
		NO _x	3.60	0.18
		CO	3.15	0.16
EG3	Diesel Engine Pump	PM	0.18	0.01
		PM ₁₀	0.18	0.01
		PM _{2.5}	0.18	0.01
		SO ₂	1.84	0.09
		VOC	1.46	0.07
		NO _x	1.46	0.07
		CO	1.27	0.06
FP1	Fire Pump	PM	0.07	<0.01
		PM ₁₀	0.07	<0.01
		PM _{2.5}	0.07	<0.01
		SO ₂	0.45	0.02
		VOC	0.67	0.03
		NO _x	0.67	0.03
		CO	0.82	0.04
		PM	0.05	<0.01

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(1) Emission point identification - either specific equipment designation or emission point number from plot plan.		PM ₁₀	0.05	<0.01
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.		PM ₁₀	0.05	<0.01
(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.		SO _x	0.21	0.01
VOC	- volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1	VOC	0.56	1.25
FUGHRM, FUGFIN, FUGPPM	- Hydraulic Fluid and Oil Evaporation (4)			
SO ₂	- sulfur dioxide			
FUGFL ₂	- Vehicle Refueling (5)	VOC	0.51	<0.01
PM ₁₀	- total particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5} , as represented			
FUGGLN	- total particulate matter equal to or less than 10 microns in diameter, including PM _{2.5} , as represented	VOC	16.58	0.88
PM _{2.5}	- particulate matter equal to or less than 2.5 microns in diameter			
FUGDL ₂₅	- Diesel Tank - Vehicles	VOC	0.07	<0.01
CO	- carbon monoxide			
FUGDL ₂	- 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	VOC	<0.01	<0.01
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.	Diesel Tank - EG#2	VOC	<0.01	<0.01
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.	Diesel Tank - Motor	VOC	<0.01	<0.01
(6) Planned maintenance startup, and shutdown emissions are included.	Diesel Tank - Fire Pump	VOC	<0.01	<0.01
FUGDL5				
FUGSCR1	Rotary Hearth Furnace	NH ₃	<0.01	0.02
FUGSCR2	SCR Ammonia Tank	NH ₃	<0.01	0.02
FUGSCR3	Heat Treat 1 SCR Ammonia Tank	NH ₃	<0.01	0.02
All EPNs	Heat Treat 2 SCR Ammonia Tank			
	All Sources at the Plant	Individual HAP(s)	--	<10
		Total HAPs(s)	--	<25