

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 3342 and PSD-TX-838

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. 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	
			lb/hr	
	TPY			
S-5	Sulfuric Tanks No. 1 and 2 Scrubber Stack	H ₂ SO ₄	0.17	0.77
S-2	Sulfuric Tanks No. 3 and 4 East Scrubber Stack	H ₂ SO ₄	0.09	0.38
S-3	Sulfuric Tanks No. 3 and 4 West Scrubber Stack	H ₂ SO ₄	0.09	0.38
S-1	Sulfuric Tank No. 5 Scrubber Stack	H ₂ SO ₄	0.07	0.29
S-6	Conversion Coating Tank No.1 Scrubber Stack	HNO ₃	0.02	0.08
		Zinc Phosphate	0.05	0.20
		Zinc Nitrate	0.03	0.06
S-4	Conversion Coating Tank No. 2 Scrubber Stack	HNO ₃	0.02	0.08
		Zinc Phosphate	0.05	0.20
		Zinc Nitrate	0.03	0.06
T-1	Sulfuric Acid Tank Fug (4)	H ₂ SO ₄	2.60	5.20
NGFUG	Annealing furnaces No. 1, 2, and 3; Batch Furnace; and Tube Dryer (4)	NO _x	2.88	12.59
		CO	2.42	10.58
		VOC	0.16	0.69
		PM/PM ₁₀	0.22	0.96
		SO ₂	0.02	0.08
CAUFUG	Caustic Cleaning Tank (4)	NaOH	0.45	1.94

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			lb/hr	TPY
NEUFUG	Neutralizer Tank (4)	NaNO ₂	0.17	0.75
LUBFUG	Lube Tank (4)	NaOCC ₁₇ H ₃₅	0.62	2.70
SP-1	Specialty Tube Marking (4)	VOC	3.48	6.96
G-1	EAF 7 Scrubber Stack (6)	PM/PM ₁₀	6.50	-
		CO	321.00	-
		NO _x	12.72	-
		SO ₂	14.40	-
		VOC	4.50	-
		Sb	0.0071	-
		As	0.0053	-
		Be	0.0009	-
		Cd	0.0008	-
		Cr	0.0042	-
		Co	0.0009	-
		Pb	0.0379	-
		Mn	0.1235	-
		Hg	0.0138	-
		Ni	0.0096	-
		Se	0.0162	-

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
G-15	EAF 6 and 7 Dust (6) Collector Stack	PM/PM ₁₀	6.29	-
		CO	321.00	-
		NO _x	12.72	-
		SO ₂	14.40	-
		VOC	4.50	-
		Sb	0.0071	-
		As	0.0053	-
		Be	0.0009	-
		Cd	0.0008	-
		Cr	0.0042	-
		Co	0.0009	-
		Pb	0.0379	-
		Mn	0.1235	-
		Hg	0.0138	-
		Ni	0.0096	-
		Se	0.0162	-
G1 and G-15	EAF 7 Scrubber Stack and EAF 6 and 7 Dust Collector Stack (5 and 6)	PM/PM ₁₀	-	46.72
		CO	-	1398.00
		NO _x	-	60.00
		SO ₂	-	67.90
		VOC	-	21.20
		Sb	-	0.031
		As	-	0.023
		Be	-	<0.004
		Cd	-	<0.004
		Cr	-	0.018
		Co	-	<0.004
		Pb	-	0.166
		Mn	-	0.541
		Hg	-	0.060
		Ni	-	0.042
		Se	-	0.071

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			<u>lb/hr</u>	<u>TPY</u>
G-13	Furnace Building (4 and 6) Roofline Fugitives (EAF 6 and 7 and Ladle Preheat Stations)	PM/PM ₁₀	5.50	13.00
		CO	3.40	8.40
		Pb	0.2597	0.6125
		NO _x	4.00	10.00
		VOC	0.22	0.55
		SO ₂	0.02	0.06
		Sb	<0.0008	0.0019
		As	<0.0008	<0.0019
		Be	<0.0001	<0.0001
		Cd	0.0031	0.0073
		Cr	0.0799	0.1884
		Co	0.0005	0.0012
		Mn	2.652	6.2546
		Hg	<0.0001	<0.0001
		Ni	0.0037	0.0087
		Se	<0.0001	0.0002

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- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an 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 -particulate matter, suspended in the atmosphere, including PM₁₀

PM₁₀ -particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall

be
assumed that no particulate
matter greater than 10
microns is emitted

CO -carbon monoxide

H₂SO₄ -sulfuric acid

HNO₃ -nitric acid

NaNO₂ -sodium nitrite

NaOCC₁₇H₃₅ -sodium stearate

Sb -antimony

As -arsenic

Be -beryllium

Cd -cadmium

Cr -chromium

Co -cobalt

Pb -lead

Mn -manganese

Hg -mercury

Ni -nickel

Se -selenium

NaOH -sodium hydroxide

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- (4) Fugitive emissions are an estimate only.
- (5) Sum of annual emissions from both EPN G1 and G-15 shall not exceed the listed values.
- (6) The speciated metal emissions are included in the PM values.

Dated