

Emission Sources - Maximum Allowable Emission Rates

Permit Number 20662

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 (8)	
			lbs/hour	TPY (4)
WEST PLANT				
KP-1	Zinc Kettle No. 1 Baghouse Stack	PM (6)	0.15	0.32
		PM ₁₀ (6)	0.11	0.22
		PM _{2.5} (6)	0.02	0.04
		NH ₄ Cl	0.10	0.22
		ZnO	0.02	0.05
		ZnCl ₂	0.006	0.013
		Zn	0.008	0.16
		NH ₃	0.002	0.003
FE-1	Zinc Kettle No.1 (5)	PM (6)	0.31	0.66
		PM ₁₀ (6)	0.22	0.46
		PM _{2.5} (6)	0.04	0.08
		NH ₄ Cl	0.21	0.44
		ZnO	0.05	0.10
		ZnCl ₂	0.012	0.03
		Zn	0.02	0.03
		NH ₃	0.003	0.007
KB-1	Zinc Kettle No. 1 Burner stack	PM	0.03	0.10
		PM ₁₀	0.03	0.10
		PM _{2.5}	0.03	0.10
		NO _x	1.62	5.26
		CO	1.36	4.42
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		VOC	0.09	0.29
		SO ₂	0.01	0.03
B-1	Primary Gas-Fired Boiler Stack	PM	<0.001	<0.001
		PM ₁₀	<0.001	<0.001
		PM _{2.5}	<0.001	<0.001
		NO _x	0.01	0.025
		CO	0.01	0.01
		VOC	0.001	0.001
		SO ₂	<0.001	<0.001
RF-1	Roof Fan 1	HCl (7)	0.02	-
RF-2	Roof Fan 2	HCl (7)	0.02	-
RF-3	Roof Fan 3	HCl (7)	0.02	-
RF-4	Roof Fan 4	HCl (7)	0.02	-
	Total Roof Fan Emissions (Fans 1-4)		-	0.08
8A	Cooling Tower (5)	Cr VI (7)	<0.00004	-
8B	Cooling Tower (5)	Cr VI (7)	<0.00004	-
8A and 8B	Total Cooling Towers Emissions	Cr VI (7)	-	<0.0004
9	Quench Tank (5)	Cr VI (7)	<0.00008	<0.0003
EAST Plant				
Project Number: 322260	Zinc kettle No. 2 Baghouse stack	PM (6)	0.07	0.18
		PM ₁₀ (6)	0.05	0.13
		PM _{2.5} (6)	0.01	0.02
		NH ₄ Cl	0.05	0.12
		ZnO	0.01	0.03
		ZnCl ₂	0.003	0.007
		Zn	0.004	0.009
		NH ₃	<0.001	0.002
KB-2	Zinc Kettle Burner	PM	0.03	0.08

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		PM _{2.5}	0.03	0.08
		NO _x	1.32	4.20
		CO	1.11	3.53
		VOC	0.07	0.23
		SO ₂	0.01	0.03
B-2	Waste Heat Boiler Stack	PM	0.0002	0.0004
		PM ₁₀	0.0002	0.0004
		PM _{2.5}	0.0002	0.0004
		NO _x	0.01	0.02
		CO	0.004	0.009
		VOC	0.001	0.001
		SO ₂	0.0001	0.001
RF-5	Roof Fan 5	HCl (7)	0.03	-
RF-6	Roof Fan 6	HCl (7)	0.03	-
RF-7	Roof Fan 7	HCl (7)	0.03	-
	Total Roof Fans Emissions (Fans 5-7)	HCl (7)	-	0.09
10	Cooling Tower (5)	Cr VI (7)	<0.00003	<0.0001
11	Quench Tank (5)	Cr VI (7)	<0.00004	<0.0002

- (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} - total particulate matter equal to or less than 2.4 microns in diameter
NH₄Cl - ammonium chloride
ZnO - zinc oxide
ZnCl₂ - zinc chloride
Zn - zinc
NH₃ - ammonium

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CO - carbon monoxide
HCl - hydrogen chloride
CrVI - hexavalent chromium

- (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) Includes NH_4Cl , NH_3 , ZnO , ZnCl_2 , and Zn .
- (7) The combination of all Hazardous Air Pollutants (HAPs) shall not exceed 25 TPY and the facility shall not emit more than 10 TPY of a single HAP.
- (8) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit and will need separate authorization unless the activity can meet the conditions of 30 TAC §116.119.

Date: February 15, 2021