

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 25027

draft

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

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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

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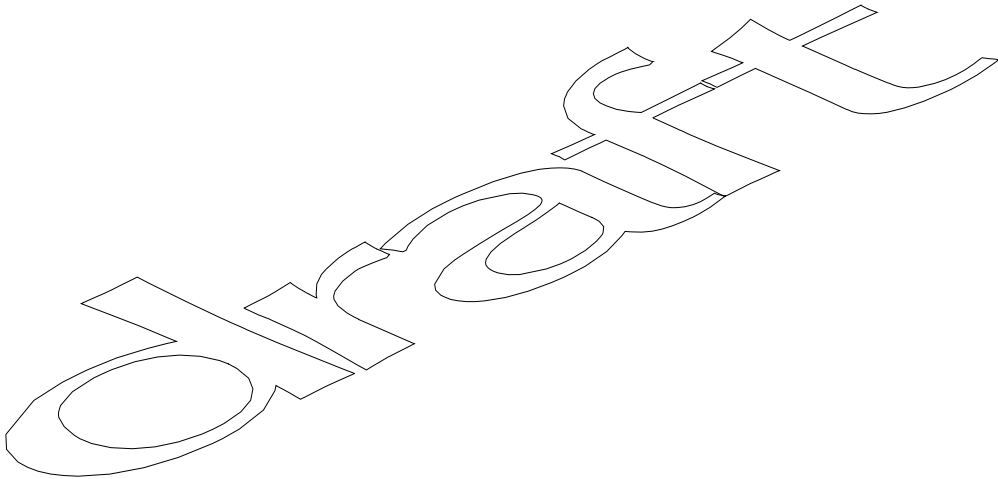
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lb/hr	TPY

CR-1	Scrubber Stack	Cr VI HNO ₃	<0.00002 0.004	<0.00006 0.0018
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H ₃ PO ₄	0.0183	0.0801
H ₂ SO ₄	<0.00001	<0.00001

CR-2	Scrubber Stack	Cr VI	0.00147	0.0064
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CR-3	Scrubber Stack	Cr VI MgF ₂	0.00123 <0.00015	0.0054 <0.00065
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H₃PO₄
NaOH

0.0049
0.00456

0.0215
0.020

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CR-4

CR-4 Chrome Line (11)
Tanks

CrVI

<0.000005 <0.000016

A/A-1

Scrubber Stack (5and 10)

HCl

HF 0.00141

0.00197

0.00618

0.0402

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H₃PO₄

NaF

0.337

<0.00008

1.54

<0.00034

NaOH
H₂SO₄

0.0575
0.0021

0.252
0.00915

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A/A-2

Scrubber Stack (5 and 10)

HCl
HNO₃

<0.00001
<0.00009

<0.00005
<0.00004

H ₃ PO ₄	<0.00004	<0.00015
NaOH	0.0046	0.0201
H ₂ SO ₄	<0.00001	<0.00001

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NiCl ₂	<0.00001	<0.00001
NiSO ₄	0.0488	0.0214
HNO ₃	0.00073	0.00319

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Na ₂ Cr ₂ O ₇	<0.00001	<0.00001
NaOH	0.00621	0.0272

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H₂SO₄

<0.00002

0.00005

AIR CONTAMINANTS DATA

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lb/hr	TPY

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

A/A-4	Scrubber Stack (5 and 10)	HCl	0.00069	0.0031	
		NiCl ₂		0.00036	0.00157
		NiSO ₄		0.00938	0.0411

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

NaOH	0.00318	0.0139
H ₂ SO ₄	0.00002	0.00006

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

A/A-5	Scrubber Stack (5 and 10)	HCl	0.00136	0.00596
		NiCl ₂	0.00008	0.00036
		NiSO ₄	<0.00003	<0.0001

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HNO ₃	0.0135	0.059
H ₃ PO ₄	<0.00002	<0.00007
NaOH	0.0109	0.0479

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		ZnO	0.00012	0.00051
A/A-6	Scrubber Stack (5 and 10)	CH ₃ COOH	<0.00001	<0.00003

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FeCl ₃	<0.00001	<0.00001
HCl	<0.00004	<0.00017
HF0.00304	0.0133	

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HNO ₃	0.00059	0.00259
KHF ₂	<0.00001	<0.00001
NaHSO ₄	0.0108	0.047

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NaF	0.00022	0.00098
NaOH	0.0104	0.0456
H ₂ SO ₄	0.00117	0.00512

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Na ₃ PO ₄	0.0115	0.0504
ZnO	<0.00001	0.00002

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A/A-7	Scrubber Stack (5 and 10)	HNO ₃	0.00044	0.00192
		NaOH	0.0135	0.0591
		NaNO ₃	<0.00001	<0.00001

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

H ₂ SO ₄	<0.00001	<0.00001
Na ₃ PO ₄	0.00154	0.00675

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AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emission Rates*</u>
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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
CN-1	Scrubber Stack (5 and 10)	CuCN	0.0011	0.00482

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K ₂ CO ₃	<0.00001	<0.00001
KCN	0.0014	0.00648
KOH	<0.00001	<0.00001

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AgCN	0.00004	0.00018
NaCN	0.00529	0.0223
NaOH	<0.00003	0.00012

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EG-1	Emergency Generator Exhaust (6 and 10)	PM ₁₀	0.418	0.013
		NO _x	7.790	0.234

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SO ₂	0.456	0.014
CO	0.836	0.025
VOC	0.418	0.013

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

B-1A/B	Hot Water	PM ₁₀	0.08	0.42
	Boiler Stack (7 and 10)	NO _x	0.68	3.56



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SO ₂	0.004	0.02
CO	0.14	0.73
VOC	0.04	0.21

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

B-2A/B	Hot Water	PM ₁₀	0.08	0.42
	Boiler Stack (7 and 10)	NO _x	0.68	3.56

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SO ₂	0.004	0.02
CO	0.14	0.73
VOC	0.04	0.21

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

DC-1	Abrasive Cleaning Filter Exhaust (8 and 10)	PM ₁₀	0.73	0.32
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FUG-1	Waste Water (4, 9, and 10)	SO ₂	0.0002	0.001
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Treatment Equipment

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- (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.

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- (3) PM₁₀ - particulate matter (PM) 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.

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- | | |
|-----------------|----------------------------------------------------------------------------------------|
| VOC | - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1. |
| NO _x | - total oxides of nitrogen |

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SO ₂	- sulfur dioxide
CO-	carbon monoxide
Cr VI	- hexavalent chrome

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HNO_3	-	nitric acid
H_3PO_4	-	phosphoric acid
H_2SO_4	-	sulfuric acid

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MgF ₂	-	magnesium fluoride
NaOH	-	sodium hydroxide
HCl	-	hydrogen chloride

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HF -	hydrogen fluoride
NaF	- sodium fluoride
NiCl ₂	- nickel chloride

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NiSO_4	-	nickel sulfate
$\text{Na}_2\text{Cr}_2\text{CO}_7$	-	sodium dichromate
ZnO	-	zinc oxide

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CH_3COOH - acetic acid

FeCl_3 - ferric chloride

HF - hydrogen fluoride

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KHF_2	-	potassium bifluoride
NaHSO_4	-	sodium bisulfate
Na_3PO_4	-	trisodium phosphate

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NaNO_3	-	sodium nitrate
CuCN	-	cuprous cyanide
K_2CO_3	-	potassium carbonate

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KCN	-	potassium cyanide
KOH	-	potassium hydroxide
AgCN	-	silver cyanide

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NaCN - sodium cyanide

- (4) Fugitive emissions are an estimate only.
- (5) Emissions are from operations conducted per the criteria of Standard Exemption No. 41.

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- (6) Emissions are from emergency generator operating per the criteria of Permit by Rule 106.511 dated 9/4/2000.

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- (7) Emissions are from direct-fired hot water boilers operated per the criteria of Permit by Rule 106.183 dated 9/4/2000.

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- (8) Emissions are from the abrasive cleaning operation conducted per the criteria of Permit by Rule 106.452 dated 9/4/2000.

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- (9) Emissions are from the wastewater treatment operation conducted per the criteria of Permit by Rule 106.452 dated 9/4/2000.

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- (10) Emission sources operating per the criteria of a Standard Exemption or Permit by Rule are listed for clarification and information only and are not authorized by this permit.
- (11) CR-4 tanks exhaust into the building

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Dated__

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