## Permit Number 25027

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	Source	Air Contaminant	Emission Rates*	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
CR-1	Scrubber Stack	Cr VI	<0.00002	<0.00006
		HNO₃	0.004	0.0018
		$H_3PO_4$	0.0183	0.0801
		$H_2SO_4$	<0.00001	<0.00001
CR-2	Scrubber Stack	Cr VI	0.00147	0.0064
CR-3	Scrubber Stack	Cr VI	0.00123	0.0054
		MgF <sub>2</sub>	< 0.00015	<0.00065
		H₃PO₄	0.0049	0.0215
		NaOH	0.00456	0.020
CR-4	CR-4 Chrome Line (11) Tanks	CrVI	<0.000005	<0.000016
A/A-1	Scrubber Stack (5and 10)	HCI	0.00197	0.0402
7 (7 ( 1		HF	0.00141	0.00618
		H <sub>3</sub> PO <sub>4</sub>	0.337	1.54
		NaF	<0.00008	< 0.00034
		NaOH	0.0575	0.252
		H <sub>2</sub> SO <sub>4</sub>	0.0021	0.00915
A/A-2	Scrubber Stack (5 and 10)		< 0.00001	< 0.00005
	,	HNO <sub>3</sub>	< 0.00009	< 0.00004
		H₃PO₄	< 0.00004	< 0.00015
		NaOH	0.0046	0.0201
		$H_2SO_4$	< 0.00001	< 0.00001

# AIR CONTAMINANTS DATA

Point No. (1) Name (2) Name (3) lb/hr TPY	
N/OI 0 00004	
NiCl <sub>2</sub> <0.00001 <0.00001	
NiSO <sub>4</sub> 0.0488 0.0214	
HNO <sub>3</sub> 0.00073 0.00319	
$Na_2Cr_2O_7$ < 0.00001 < 0.00001	
NaOH 0.00621 0.0272	
H <sub>2</sub> SO <sub>4</sub> <0.00002 0.00005	
A/A-4 Scrubber Stack (5 and 10) HCI 0.00069 0.0031	
NiCl <sub>2</sub> 0.00036 0.00157	
NiSO <sub>4</sub> 0.00938 0.0411	
NaOH 0.00318 0.0139	
H <sub>2</sub> SO <sub>4</sub> 0.00002 0.00006	
A/A E Corubbor Stock (F and 10)   LICI	
A/A-5 Scrubber Stack (5 and 10) HCl 0.00136 0.00596	
NiCl <sub>2</sub> 0.00008 0.00036	
NiSO <sub>4</sub> <0.00003 <0.0001	
HNO <sub>3</sub> 0.0135 0.059	
H <sub>3</sub> PO <sub>4</sub> <0.00002 <0.00007	
NaOH 0.0109 0.0479	
ZnO 0.00012 0.00051	
A/A-6 Scrubber Stack (5 and 10) CH <sub>3</sub> COOH <0.00001 <0.00003	
FeCl <sub>3</sub> <0.00001 <0.00001	
HCI <0.00004 <0.00017	
HF 0.00304 0.0133	
HNO₃ 0.00059 0.00259	
KHF <sub>2</sub> <0.00001 <0.00001	
NaHSO <sub>4</sub> 0.0108 0.047	
NaF 0.00022 0.00098	
NaOH 0.0104 0.0456	
H <sub>2</sub> SO <sub>4</sub> 0.00117 0.00512	
Na <sub>3</sub> PO <sub>4</sub> 0.0115 0.0504	
ZnO <0.00001 0.00002	
A/A-7 Scrubber Stack (5 and 10) HNO <sub>3</sub> 0.00044 0.00192	
NaOH 0.0135 0.0591	

# AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission R	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		NaNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> Na <sub>3</sub> PO <sub>4</sub>	<0.00001 <0.00001 0.00154	<0.00001 <0.00001 0.00675
CN-1	Scrubber Stack (5 and 10)	CuCN K₂CO₃ KCN KOH AgCN NaCN NaOH	0.0011 <0.00001 0.0014 <0.00001 0.00004 0.00529 <0.00003	0.00482 <0.00001 0.00648 <0.00001 0.00018 0.0223 0.00012
EG-1	Emergency Generator Exhaust (6 and 10)	$PM_{10}$ $NO_x$ $SO_2$ $CO$ $VOC$	0.418 7.790 0.836 0.418	0.013 0.234 0.456 0.014 0.025 0.013
B-1A/B	Hot Water Boiler Stack (7 and 10)	$PM_{10}$ $NO_x$ $SO_2$ $CO$ $VOC$	0.08 0.68 0.004 0.14 0.04	0.42 3.56 0.02 0.73 0.21
B-2A/B	Hot Water Boiler Stack (7 and 10)	$\begin{array}{c} PM_{10} \\ NO_{X} \\ SO_{2} \\ CO \\ VOC \end{array}$	0.08 0.68 0.004 0.14 0.04	0.42 3.56 0.02 0.73 0.21
DC-1	Abrasive Cleaning Filter Exhaust (8 and 10)	PM <sub>10</sub>	0.73	0.32
FUG-1	Waste Water (4, 9, and 10 Treatment Equipment	) SO <sub>2</sub>	0.0002	0.001

<sup>(1)</sup> Emission point identification - either specific equipment designation or emission point number from plot plan.

<sup>(2)</sup> Specific point source name. For fugitive sources use area name or fugitive source name.

VOC

#### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(3) PM<sub>10</sub> - 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.

volatile organic compounds as defined in Title 30 Texas Administrative Code '

101.1.

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide CO - carbon monoxide Cr VI - hexavalent chrome

HNO<sub>3</sub> - nitric acid

H<sub>3</sub>PO<sub>4</sub> - phosphoric acid H<sub>2</sub>SO<sub>4</sub> - sulfuric acid

MgF<sub>2</sub> - magnesium fluoride
NaOH - sodium hydroxide
HCl - hydrogen chloride
HF - hydrogen fluoride
NaF - sodium fluoride
NiCl<sub>2</sub> - nickel chloride
NiSO<sub>4</sub> - nickel sulfate

Na<sub>2</sub>Cr<sub>2</sub>CO<sub>7</sub> - sodium dichromate

ZnO - zinc oxide

CH<sub>3</sub>COOH - acetic acid

FeCl<sub>3</sub> - ferric chloride

HF - hydrogen fluoride

KHF<sub>2</sub> - potassium bifluoride

NaHSO<sub>4</sub> - sodium bisulfate

Na<sub>3</sub>PO<sub>4</sub> - trisodium phosphate

 $NaNO_3$  - sodium nitrate CuCN - cuprous cyanide  $K_2CO_3$  - potassium carbonate KCN - potassium cyanide KOH - potassium hydroxide

AgCN - silver cyanide NaCN - sodium cyanide

(4) Fugitive emissions are an estimate only.

- (5) Emissions are from operations conducted per the criteria of Standard Exemption No. 41.
- (6) Emissions are from emergency generator operating per the criteria of Permit by Rule 106.511 dated September 4,2000.
- (7) Emissions are from direct-fired hot water boilers operated per the criteria of Permit by Rule 106.183 dated September 4, 2000.
- (8) Emissions are from the abrasive cleaning operation conducted per the criteria of Permit by Rule 106.452 dated September 4, 2000.
- (9) Emissions are from the wastewater treatment operation conducted per the criteria of Permit by Rule 106.452 dated September 4,2000.
- (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) The CR-4 tanks exhaust into the building.

Dated February 8, 2008