#### Permit No. 20345

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.

Emission *	Source	Air Contaminant	<u>Emiss</u>	ion Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
CU/STK	Stack Serving Reactor Furnace Operation (During Holding F <sup>-</sup> Operations Only)	$PM_{10}$	1.37 1.37 3.42 9.45 100.00 0.25	0.47 0.47 1.72 6.03 52.60 0.13
CU/STK/AN	Stack Annulus Serving 320.40 Bed Dryer and Conversal Building Ventilate 6.13 Bin B2A, Bin B2B, 7.00 Feed Distribution 22.40	verter PM <sub>10</sub> ion Baghouses, and Reactor	PM 73.30 Pb CO NO <sub>x</sub> 1010.50 0.22	73.30 320.40 1.40 2.88 11.51 4425.10 0.60
DC-4	Baghouse Serving Lin 0.01	ne Silo PM <sub>10</sub>	PM 0.09	0.09 0.01
C-1	No. 1 Acid Plant Pro 3.96	PM <sub>10</sub> CO NO <sub>x</sub>	PM 0.90 2.31 5.28	0.90 3.96 10.12 23.13

Emission *	Source	Air Contaminant	<u>Emissior</u>	n Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
		SO₂ VOC	0.04 0.18	0.17 0.80
C-3	1st Marine Power Bo	iler PM PM <sub>10</sub> CO NO <sub>x</sub> SO <sub>2</sub> VOC	0.27 0.27 0.68 2.74 5.79 0.05	0.44 0.44 2.77 11.09 1.51 0.22
C-4	2nd Marine Power Bo	iler PM PM <sub>10</sub> CO NO <sub>x</sub> SO <sub>2</sub> VOC	0.42 0.42 1.05 4.20 8.88 0.08	0.68 0.68 4.25 17.01 2.32 0.34
C-5	Direct-Fired Boiler 0.30 Treatment Plant	PM <sub>10</sub> CO NO <sub>x</sub> SO <sub>2</sub> VOC	PM 0.10 0.53 1.60 0.01 0.04	0.10 0.30 2.30 6.90 0.04 0.20
C-6	No. 2 Acid Plant Pr 3.78	eheater  PM <sub>10</sub> CO NO <sub>x</sub> SO <sub>2</sub> VOC	PM 0.86 2.21 6.30 0.04 0.18	0.86 3.78 9.66 27.59 0.17 0.77

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
C-7	Steam Superheater*  * This Unit Qualifie for Standard Exem 1.00		0.90 0.90 CO	4.00 4.00 0.23
		$NO_x$ $SO_2$ $VOC$	1.20 0.11 0.54	5.30 1.00 2.40
F-RSS	Slag Skimming from F	Reactor	PM	0.08
	Smelting Furnace (	$\begin{array}{c} (4) \qquad PM_{10} \\ SO_2 \end{array}$	0.08 0.21	0.32 0.84
F-CB(4)	Converter Building F	Fugitives (4)	PM	0.11
		$\begin{array}{c} PM_{10} \\ NO_{\times} \\ SO_{2} \end{array}$	0.11 0.02 0.70	0.43 0.02 3.07
F/ <u>Slag</u> /P	Slag Pour at Dump (4	PM PM <sub>10</sub>	0.55 0.55	2.11 2.11
S-1	Stack Serving Spray Baghouse	Dryer PM PM <sub>10</sub> CO NO <sub>x</sub> SO <sub>2</sub> VOC	0.87 0.87 0.22 0.66 <0.01 0.02	3.33 3.33 0.85 2.55 0.02 0.07
PF-1	Loading Acid from Ta into Rail Cars	anks SO <sub>2</sub> H <sub>2</sub> SO <sub>4</sub>	0.06 0.01	0.07 0.01
CONV/PG/STK	Stack on Baghouse Se Pugmill and Loadir		2.98 PM <sub>10</sub>	4.35 2.98

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
	4.35 and Baghouse Dust Rail Cars	s into Pb	0.80	1.17
AP/S	Stack Serving Acid	Plants CO NO <sub>x</sub> SO <sub>2</sub> VOC H <sub>2</sub> SO <sub>4</sub> (MIST)	0.03	1.50 6.10 71.00 0.11 16.20
T-1	5,000 Ton Sulfuric 0.08	Acid Tank	SO <sub>2</sub>	0.06
T-2	5,000 Ton Sulfuric 0.08	Acid Tank	SO <sub>2</sub>	0.06
T-3	5,000 Ton Sulfuric 0.08	Acid Tank	SO <sub>2</sub>	0.06
T-4	5,000 Ton Sulfuric 0.08	Acid Tank	SO <sub>2</sub>	0.06
T-5	6,000 Ton Sulfuric 0.10	Acid Tank	SO <sub>2</sub>	0.06
T-6	6,000 Ton Sulfuric 0.10	Acid Tank	SO <sub>2</sub>	0.06
T-7	6,000 Ton Sulfuric 0.10	Acid Tank	SO <sub>2</sub>	0.06
T-8	6,000 Ton Sulfuric 0.10	Acid Tank	SO <sub>2</sub>	0.06

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
T-20	Fuel Oil Storage Tar	nk VOC	1.46	0.51
T-22	Diesel Storage Tank	VOC	0.04	0.01
T-23	Diesel Storage Tank	VOC	0.05	0.03
T-24	Gasoline Storage Tar	nk VOC	6.80	0.02
T-25	Gasoline Storage Tar	nk VOC	6.99	0.55
T-26	750,000 Gallon Waste Holding Tank	ewaterSO <sub>2</sub>	0.06	0.10
T-27	750,000 Gallon Waste Holding Tank	ewaterSO <sub>2</sub>	0.06	0.10
T-28	1,000,000 Gallon Was 0.10 Surge Tank	stewater	SO <sub>2</sub>	0.06
T-29	Clarate Tank	Any	<0.01	<0.01
HF-15	Loading of WHB Dust Tote Boxes (4)	into PM PM <sub>10</sub>	<0.01 <0.01	<0.01 <0.01
HF-17Mix	Transfer from No. 5 0.03	Conveyor	PM	0.02
	to No. 10 Belt or 0.02 and Screens (4)	to Delumper	PM <sub>10</sub>	0.01
HF-17Si	Converter Silica Tra	ansfer from	PM	0.03
	No. 5 to No. 10 Be	elt (4)	$PM_{10}$	0.01

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
	<0.01			
HF-18AMix	10-13 Belt Transfer, 0.03	Mix (4)	PM	0.02
	0.03	$PM_{10}$	0.01	0.02
HF-18BMix	13-14 Belt Transfer, 0.03	Mix (4)	PM	0.02
	0.03	$PM_{10}$	0.01	0.02
HF-18ASi	10-13 Belt Transfer, <0.01	Si (4)	PM	0.03
		$PM_{10}$	0.01	<0.01
HF-18BSi	13-14 Belt Transfer, <0.01	Si (4)	PM	0.03
		$PM_{10}$	0.01	<0.01
HF-19Mix	14-15 Belt Transfer, 0.03	Mix (4)	PM	0.02
		$PM_{10}$	0.01	0.02
HF-19Si	14-15 Belt Transfer, <0.01	Si (4)	PM	0.03
		$PM_{10}$	0.01	<0.01
HF-20Mix	15-32 Belt Transfer, 0.03	Mix (4)	PM	0.02
		$PM_{10}$	0.01	0.02
HF-20Si	15-32 Belt Transfer, <0.01	Si (4)	PM	0.03
		PM <sub>10</sub>	0.01	<0.01

Emission *	Source	Air Contaminant	<u>Emissic</u>	n Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
HF-21	32 Belt Transfer to <0.01 Si (4)	Silica Silo,	A11	<0.01
HF-22	Silica Silo Transfe	r to 33 Belt (4)	PM	0.01
	<0.01	$PM_{10}$	0.07	<0.01
HF-23	Transfer from 32 to	34 Belt,	PM	0.02
	0.03 Mix (4)	PM <sub>10</sub>	0.01	0.02
0	Transfer from Belt 34 to Wet	34 to Wet	PM	0.02
	0.02 Concentrate Stora 0.01	ge Bin B1A (4)	$PM_{10}$	0.01
HF-25	Transfer from Belt	34 to Wet	РМ	0.02
	0.02 Concentrate Stora 0.01	ge Bin B1B (4)	PM <sub>10</sub>	0.01
HF-26	Bin B1A Transfer to Feeder Belt (4)	C1A PM PM <sub>10</sub>	0.01 0.01	0.02 0.01
HF-27	Bin B1B Transfer to Feeder Belt (4)	C1B PM PM <sub>10</sub>	0.01 0.01	0.02 0.01
HF-28	Belt C1A Transfer to	o C2 Belt (4)	PM	0.01
	0.02	PM <sub>10</sub>	0.01	0.01
HF-29	Belt C1B Transfer to	o C2 Belt (4)	РМ	0.01

Emission *	Source	Air Contaminant	Emission	n Rates
- Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
	0.02	PM <sub>10</sub>	0.01	0.01
HF-30	C2 Belt Transfer to 0.03		РМ	0.01
	Dryer (4)	$PM_{10}$	0.01	0.02
HF-31	Reactor Feed Distril System (4)	oution PM PM <sub>10</sub>	0.01 0.01	0.05 0.03
RF-1	Concentrate and Flux	x Delivery	PM	1.13
	Trucks (4)	PM <sub>10</sub> Pb	0.51 0.01	0.16 <0.01
RF-2	Scrap Handling Fork <0.01	Lifts (4)	PM	0.01
		$PM_{10}$	0.01	<0.01
RF-3	General Plant Servio	ce Haul	PM	0.88
	Trucks (4)	PM <sub>10</sub> Pb	0.40 0.01	0.36 0.01
RF-4	Street Sweepers (4)	PM PM <sub>10</sub> Pb	0.29 0.13 <0.01	0.56 0.25 0.01
RF-5	Slag Haul Trucks (4)	PM PM <sub>10</sub> Pb	1.13 0.51 <0.01	2.48 1.12 0.01

Emission *	Source	Air Contaminant	<u>Emissic</u>	on Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
				0.04
RF-6	Storage Pile Front-B 0.19	ind Loaders (5)	PM	0.21
	0.13	$PM_{10}$	0.09	0.08
RF-7	Misc. Use Front-End 0.13	Loaders (4)	PM	0.19
0.13	0.13	PM <sub>10</sub>	0.09	0.06
RF-8	Water Trucks (4)	РМ	0.10	0.08
		$PM_{10}$	0.05	0.04
RF-9	RF-9 Miscellaneous Use Fork 0.13	ork Lifts (4)	РМ	0.20
		$PM_{10}$	0.09	0.06
RF-10	Acid Plant Fork Lift		0.28	0.26
		PM <sub>10</sub>	0.13	0.12
RF-11	Wastewater Lime Deli	ivery PM	0.10	0.01
	Trucks (4)	$PM_{10}$	0.05	<0.01

<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.

<sup>(3)</sup> PM - particulate matter including PM<sub>10</sub>

 $PM_{10}$  - particulate matter less than 10 microns in diameter

VOC - volatile organic compounds as defined in General Rule 101.1

 $NO_x$  - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide CO - carbon monoxide

#### AIR CONTAMINANTS DATA

Dated

Emission *	Source	Air Contami	inant <u>Emissior</u>	<u>n Rates</u>
Point No. (	1) Name (2)	Name (3	) <u>lb/hr</u>	TPY
Pb (4) Fugitive as a max * Emission	ve emissions a aximum allowab rates are b	d are an estimate only an le emission rate. Dased on and the facil erating schedule:		
Hrs/da	.yDays/w	eekWeeks/year	_or Hrs/year <u>8,760</u>	