Permit Number 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	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
CLUCTIV	Ctook Coming Decetor	DM	1 07	0.47
CU/STK	Stack Serving Reactor	PM	1.37	0.47
	Furnace Operation	PM ₁₀	1.37	0.47
	(During Holding Fire	CO	3.42	1.72
	Operations Only)	NO_x	9.45	6.03
		SO_2	100.00	52.60
		VOC	0.25	0.13
CU/STK/AN	Stack Annulus Serving Fluid	PM	76.30	324.80
	Bed Dryer and Converter	PM_{10}	76.30	324.80
	Building Ventilation Baghouse		0.73	2.43
	Bin B2A, Bin B2B, Reactor	CO	45.00	135.00
	Feed Distribution System, and		11.50	50.40
	Pugmill Baghouse	SO_2	1010.50	4425.10
	r agriiii Bagrioase	VOC	0.29	1.27
		VOO	0.23	1.27
DC-4	Baghouse Serving Lime Silo	PM	0.09	0.01
		PM ₁₀	0.09	0.01
C-1	No. 1 Acid Diant Drobactor	DM	0.90	2.06
C-1	No. 1 Acid Plant Preheater	PM		3.96
		PM ₁₀	0.90	3.96
		CO	2.31	10.12
		NO _x	5.28	23.13
		SO_2	0.04	0.17
		VOC	0.18	0.80

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emissio</u> lb/hr	n Rates * TPY
C-3	1st Marine Power Boiler	$\begin{array}{c} PM \\ PM_{10} \\ CO \\ NO_{x} \\ SO_{2} \\ VOC \end{array}$	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 Boiler	$\begin{array}{c} PM \\ PM_{10} \\ CO \\ NO_{x} \\ SO_{2} \\ VOC \end{array}$	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 at Water Treatment Plant	$\begin{array}{c} PM \\ PM_{10} \\ CO \\ NO_{x} \\ SO_{2} \\ VOC \end{array}$	0.10 0.10 0.53 1.60 0.01 0.04	0.30 0.30 2.30 6.90 0.04 0.20
C-6	No. 2 Acid Plant Preheater	$\begin{array}{c} PM \\ PM_{10} \\ CO \\ NO_{x} \\ SO_{2} \\ VOC \end{array}$	0.86 0.86 2.21 6.30 0.04 0.18	3.78 3.78 9.66 27.59 0.17 0.77
C-7	Steam Superheater (This Unit Qualifies for Standard Exemption No. 7)	$\begin{array}{c} PM \\ PM_{10} \\ CO \\ NO_{x} \\ SO_{2} \\ VOC \end{array}$	0.90 0.90 0.23 1.20 0.11 0.54	4.00 4.00 1.00 5.30 1.00 2.40
F-RSS	Slag Skimming from Reactor Smelting Furnace (4)	PM PM ₁₀	0.09 0.09	0.36 0.36

Emission	Source	Air Contaminant	<u>Emissi</u>	on Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		SO ₂	0.25	0.96
F-CB(4)	Converter Building Fugitives (4	PM PM ₁₀ NO _x SO ₂ CO VOC	0.12 0.12 0.02 0.70 <0.01 <0.01	0.54 0.54 0.04 3.07 <0.01 <0.01
F/Slag/P	Slag Pour at Dump (4)	PM PM ₁₀	0.62 0.62	2.41 2.41
S-1	Stack Serving Spray Dryer Baghouse	$\begin{array}{c} PM \\ PM_{10} \\ CO \\ NO_{x} \\ SO_{2} \\ VOC \end{array}$	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 Tanks into Railcars	SO_2 H_2SO_4	0.06 0.01	0.07 0.01
AP/S	Stack Serving Acid Plants	CO NO _x SO ₂ VOC H ₂ SO ₄ (MIST)	50.00 30.00 964.90 0.10 3.74	120.00 80.00 2171.00 0.33 16.20
T-1	5,000 Ton Sulfuric Acid Tank	SO_2	0.06	0.08
T-2	5,000 Ton Sulfuric Acid Tank	SO_2	0.06	0.08
T-3	5,000 Ton Sulfuric Acid Tank	SO_2	0.06	0.08
T-4	5,000 Ton Sulfuric Acid Tank	SO_2	0.06	0.08

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emissio</u> lb/hr	n Rates * TPY
T-5	6,000 Ton Sulfuric Acid Tank	SO_2	0.06	0.10
T-6	6,000 Ton Sulfuric Acid Tank	SO_2	0.06	0.10
T-7	6,000 Ton Sulfuric Acid Tank	SO ₂	0.06	0.10
T-8	6,000 Ton Sulfuric Acid Tank	SO ₂	0.06	0.10
T-20	Fuel Oil Storage Tank	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 Tank	VOC	6.80	0.02
T-25	Gasoline Storage Tank	VOC	6.99	0.55
T-26	750,000 Gallon Wastewater Holding Tank	SO ₂	0.06	0.10
T-27	750,000 Gallon Wastewater Holding Tank	SO ₂	0.06	0.10
T-28	100,000 Gallon Wastewater Surge Tank	SO ₂	0.06	0.10
T-29	Clarate Tank	Any	<0.01	<0.01
HF-15	Loading of WHB Dust into Tote Boxes (4)	PM PM ₁₀	<0.01 <0.01	<0.01 <0.01
HF-17Mix	Transfer from No. 5 Conveyor to No. 10 Belt or to Delumper and Screens (4)	PM PM ₁₀	0.02 0.01	0.04 0.02

Emission	Source Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
HF-17Si	Converter Silica Transfer from	ı PM	0.03	< 0.01
	No. 5 to No. 10 Belt (4)	PM_{10}	0.01	<0.01
HF-18AMix	Nos. 10-13 Belt Transfer, Mix	(4) PM	0.02	0.04
		PM_{10}	0.01	0.02
HF-18BMix	Nos. 13-14 Belt Transfer, Mix	(4) PM	0.02	0.04
		PM_{10}	0.01	0.02
HF-18ASi	Nos. 10-13 Belt Transfer, Si (4	4) PM	0.03	<0.01
		PM_{10}	0.01	<0.01
HF-18BSi	Nos. 13-14 Belt Transfer, Si (4	4) PM	0.03	< 0.01
		PM_{10}	0.01	<0.01
HF-19Mix	Nos. 14-15 Belt Transfer, Mix	(4) PM	0.02	0.04
		PM_{10}	0.01	0.02
HF-19Si	Nos. 14-15 Belt Transfer, Si (4	4) PM	0.03	<0.01
		PM_{10}	0.01	<0.01
HF-20Mix	Nos. 15-32 Belt Transfer, Mix	(4) PM	0.02	0.04
		PM_{10}	0.01	0.02
HF-20Si	Nos. 15-32 Belt Transfer, Si (4	4) PM	0.03	<0.01
		PM_{10}	0.01	<0.01
HF-21	No. 32 Belt Transfer to Silica S Si (4)	Silo, All	<0.01	<0.01
HF-22	Silica Silo Transfer 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	0.04
	Mix (4)	PM_{10}	0.01	0.02

Emission	Source	Air Contaminant	Emissior	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
HF-24	Transfer from Belt 34 to Wet	PM	0.02	0.02
	Concentrate Storage Bin B1A	(4) PM ₁₀	0.01	0.01
HF-25	Transfer from Belt 34 to Wet	PM	0.02	0.02
	Concentrate Storage Bin B1B	(4) PM ₁₀	0.01	0.01
HF-26	Bin B1A Transfer to C1A	PM	0.01	0.02
	Feeder Belt (4)	PM ₁₀	0.01	0.01
HF-27	Bin B1B Transfer to C1B	PM	0.01	0.02
	Feeder Belt (4)	PM ₁₀	0.01	0.01
HF-28	Belt C1A Transfer to C2 Belt (4)) PM PM ₁₀	0.01 0.01	0.02 0.01
HF-29	Belt C1B Transfer to C2 Belt (4)) PM PM ₁₀	0.01 0.01	0.02 0.01
HF-30	C2 Belt Transfer to Fluid Bed	PM	0.01	0.04
	Dryer (4)	PM ₁₀	0.01	0.02
HF-31	Reactor Feed Distribution	PM	0.02	0.06
	System (4)	PM ₁₀	0.01	0.03
RF-1	Concentrate and Flux Delivery Trucks (4)	PM PM ₁₀ Pb	1.13 0.51 0.01	0.36 0.16 <0.01
RF-2	Scrap Handling Fork Lifts (4)	PM PM ₁₀	0.01 0.01	<0.01 <0.01
RF-3	General Plant Service Haul Trucks (4)	PM PM ₁₀ Pb	0.88 0.40 0.01	0.79 0.36 0.01

Emission	Source	Air Contaminant	Emission	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
RF-4	Street Sweepers (4)	PM	0.29	0.56
	, ,	PM_{10}	0.13	0.25
		Pb	<0.01	0.01
RF-5	Slag Haul Trucks (4)	PM	1.13	2.48
		PM_{10}	0.51	1.12
		Pb	<0.01	0.01
RF-6	Storage Pile Front-End Loaders	(4) PM	0.21	0.19
		PM_{10}	0.09	0.08
RF-7	Misc. Use Front-End Loaders (4) PM	0.19	0.13
		PM_{10}	0.09	0.06
RF-8	Water Trucks (4)	PM	0.10	0.08
		PM_{10}	0.05	0.04
RF-9	Miscellaneous Use Fork Lifts (4)) PM	0.20	0.13
	. ,	PM_{10}	0.09	0.06
RF-10	Acid Plant Fork Lifts (4)	PM	0.28	0.26
	, ,	PM_{10}	0.13	0.12
RF-11	Wastewater Lime Delivery	PM	0.10	0.01
	Trucks (4)	PM_{10}	0.05	< 0.01
F/MATTE/P	Outdoor Matte Pouring (4)	PM	5.47	1.97
		PM_{10}	5.47	1.97
		SO_2	39.20	14.10
		Pb	0.32	0.11
HF-46	Reclaim of Matte from Pile (4)	PM	0.02	0.01
	,	PM_{10}	0.02	0.01
		Pb	< 0.01	< 0.01

Source

Emission

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Rates *

Air Contaminant

<u>Poir</u>	<u>ıt No. (1)</u>	Name (2)		Name (3)	lb/hr	TPY
Note	holding	emission limits for Cl fire and converter op er operations have cea	peration; hours of I	nolding fire during		•
	Emission from plot p	ooint identification - e lan.	either specific equip	oment designation	or emission po	int numbe
(2) (3)	Specific por PM - PM ₁₀ - VOC - NO _x - SO ₂ - CO -	pint source name. For particulate matter incluparticulate matter, equisted, it shall be assurvolatile organic compostotal oxides of nitrogenesulfur dioxide carbon monoxide sulfuric acid	uding PM ₁₀ (includin ual to or less than med that no particul ounds as defined in	g species) 10 microns in dia ate matter greater f	ameter. Where than 10 microns	PM is not is emitted.
(4)	Fugitive er	nissions are an estima	ate only.			
	Emission i schedule:	ates are based on a	nd the facilities are	limited by the foll	owing maximum	ı operating
	Hrs/day	_ Days/week Wee	ks/year or Hrs/y	/ear <u>8,760</u>		
					Dated	