AIR CONTAMINANTS DATA

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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 8166

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		Air Contaminant <u>Emission Rates *</u>		n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
Existing sources	with name change				_	
R10/GDCX01	R-10 Gantry Drop to Conveyor- Bauxite/Spar (4)	PM PM ₁₀		1.48 0.70	3.28 1.55	
R10/ATBS11	R-10-A Tower Bauxite/Spar (4)	PM M ₁₀	0.05	0.10 0.02	0.05	
R10/BOSX10	R-10-Bauxite from Outside Stor (4)	age PM PM ₁₀		29.57 4.44	16.10 2.41	
R10/BHXX11	R-10-Bauxite Handling (4)	PM M ₁₀	0.03	0.05 <0.01	<0.01	
R10/BHNX11	R-10-Bauxite Hopper-North (4)	PM M ₁₀	0.01	0.03 0.02	0.03	
R10/BHSX11	R-10-Bauxite Hopper-South (4)	PM M ₁₀	0.01	0.03 0.02	0.03	

Emission *	Source	Ai	r Contar	ninant	<u>Emissi</u>	on Rates
* Point No. (1)	Name (2)		Name (3	3)	lb/hr	TPY
R21/BTTX11	R-21-Transfer Tower-Bauxite	e (4)		PM		0.40
		PM ₁₀		0.38 0.19	0.18	
R25/BFCX11	R-25-Building Bauxite Conve	eyor (4) PM ₁₀	PM	0.38	0.80 <0.01	<0.01
R30/DVXX01	R-30-Digestion Vacuum Ven	t VOC	Hg	5.95	0.0017 22.62	0.007
R35/LTTX01	R-35-Low Temp Thickeners			Hg 0.27		0.07
		VOC		1.18	4.48	
R35V/FEA01	R-35V-Flocculent Tank-North No. 2 Vent	n	VOC		3.59	0.37
R35V/FWB01	R-35V-Flocculent Tank - Sou No. 1 Vent	uth	VOC		3.59	0.37
R35V/FCX01	R-35V-Flocculent Tank - Nor No. 1 Vent	rth	VOC		3.59	0.37
R35/HTTX01	R-35-High Temp Thickeners	Vent		Hg 0.001		0.0004
		VOC		0.16	0.62	
R35J1/CN01	R-35J1-Causticizer Vent - No	orth		PM ₁₀ 1.20		0.27
		NaOF	l	0.27	1.20	
R35J1/CS01	R-35J1-Causticizer Vent - So	outh		PM ₁₀ 1.20		0.27
		NaOF	l	0.27	1.20	

Emission	Source	Air Contam	inant	<u>Emissio</u>	n Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
R42/HI7A01	R-42-Heat Interchange Vacuum		Hg		0.0031
	No. 7 A Vent	VOC	0.012	0.32	1.20
R42/03EV01	R-42-No. 3 Evaporation Vacuum Vent	Hg VOC		0.0006 0.02	0.002 0.05
R42/01EV01	R-42-No. 1 Evaporation Vacuum Vent	Hg VOC		0.0006 0.02	0.002 0.05
R42/02EV01	R-42-No. 2 Evaporation Vacuum Vent	Hg VOC		0.0006 0.02	0.002 0.05
R42/04EV01	R-42-No. 4 Evaporation Vacuum Vent	Hg VOC		0.0006 0.02	0.002 0.05
R42/06EV01	R-42-No. 6 Evaporation Vacuum Vent	Hg VOC		0.0006 0.02	0.002 0.05
R110/CVA01	R-110-Condensate Vessel A Vent	Hg VOC		<0.0001 <0.01	<0.001 <0.01
R110/CVD01	R-110-Condensate Vessel D Vent	Hg VOC		<0.0001 <0.01	<0.001 <0.01
R110/40X01	R-110-40 lbs Deaerator Vent A	Hg VOC		0.0032 2.00	0.01 7.59
R110/40X02	R-110-40 lbs Deaerator	Hg VOC		0.0032 2.00	0.01 7.59
R110/40X03	R-110-40 lbs Deaerator Vent C	Hg DC	2.00	0.0032 7.59	0.01
R51/02TL11	R-51-Track No. 2 Loading-Al ₂ O ₃		PM ₁₀ 6.20		1.42

Emission *	Source	Air Contar	ninant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3	3)	1b/hr	TPY
	Bag Collector	Al_2O_3		1.42	6.20
R51/03TL11	R-51-Track No. 3 Loading-Al ₂ O ₃	3	PM ₁₀ 6.20		1.42
	Bag Collector	AI_2O_3		1.42	6.20
R53C/40B11	R-53C-Al ₂ O ₃ Conveyor No. 40 Belt to R-53C Bag Collector	PM PM ₁₀		0.39 0.19	0.84 0.42
R53C/ATS11	R-53C-Transfer and Storage Bag Collector	PM PM ₁₀		0.39 0.19	0.84 0.42
R52/BLCX31	R-52-Bulk Loading Chute-South	1	PM ₁₀ 0.46		1.35
	Bag Collector	Al_2O_3	0.40	1.35	0.46
R52/BLCX41	R-52-Loading Chute-Top Bag Collector	PM_{10} Al_2O_3		0.34 0.34	0.46 0.46
R52/BLCX11	R-52-LoadingChute-Choke Feeder-North Bag Collector	PM_{10} Al_2O_3		0.20 0.20	0.27 0.27
R52/DOCK00		PM M ₁₀ l ₂ O ₃	16.72 30.40	30.40 9.22 16.77	16.77
R56/AHC211	R-56 Alumina Handling Conveyor No. 2 Head Pulley Bag Collector	PM_{10} Al_2O_3		0.15 0.15	0.66 0.66
R56-4/CT01	R-56-4-Cooling Tower (4)	PM ₁₀ aOH	0.0019	0.0019 0.0083	0.0083
R55/ESPD11	R-55-ESP Dust Redigest (Tank No. 1) Wet Scrubber	PM PM ₁₀		0.06 0.03	0.24 0.12

Emission *	Source	Air Contaminant	<u>Emission</u>	n Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
1995 Permit Source	ces with more than one physic	al source		
R10/B33A10	R-10-Bauxite Transfer No. 3	PM	0.23	0.24
	Conveyor to No. 3A Belt (4)	PM ₁₀	0.11	0.11
R10/B33B10	R-10-Bauxite Transfer No. 3	PM	0.23	0.24
	Conveyor to No. 3B Belt (4)	PM ₁₀	0.11	0.11
R10/B39A10	R-10-Bauxite Transfer No. 3	PM	0.23	0.24
	Conveyor to No. 9A Belt (4)	PM ₁₀	0.11	0.11
R10/B31610	R-10-Bauxite Transfer No. 3	PM	0.23	0.24
	Conveyor to No. 16 Belt (4)	PM ₁₀	0.11	0.11
R10/B31510	R-10-Bauxite Transfer No. 3	PM	0.23	0.24
	Conveyor to No. 15 Belt (4)	PM ₁₀	0.11	0.11
R10/BDS111	R-10-Bauxite Drop To Outside	PM	0.23	0.22
	Storage No. 1 (4)	PM ₁₀	0.11	0.11
R10/BDS211	R-10-Bauxite Drop To Outside	PM	0.23	0.22
	Storage No. 2 (4)	PM ₁₀	0.11	0.11
R10/BDS311	R-10-Bauxite Drop To Outside	PM	0.23	0.22
	Storage No. 3 (4)	PM ₁₀	0.11	0.11
R16/BDXX11	R-16-Bauxite Drop-Inside	PM	0.23	0.22
	Building(4)	PM ₁₀	0.11	0.11
R15/BDXX11	R-15-Bauxite Drop-Inside	PM	0.23	0.22
	Building(4)	PM ₁₀	0.11	0.11
R25/RM0102	R-25-Rod Mill Feed No. 1 Vent V	Hg OC 0.14	0.005 0.44	0.02

Emission	Source	Ai	r Contam	inant	<u>Emission</u>	Rates
<u>*</u> Point No. (1)	Name (2)		Name (3)	lb/hr	TPY
R25/RM0202	R-25-Rod Mill Feed No. 2 Ver	nt VOC	Hg	0.14	0.005 0.44	0.02
R25/RM0302	R-25-Rod Mill Feed No. 3 Ver	nt VOC	Hg	0.14	0.005 0.44	0.02
R25/RM0402	R-25-Rod Mill Feed No. 4 Ver	nt VOC	Hg	0.14	0.005 0.44	0.02
R25/RM0502	R-25-Rod Mill Feed No. 5 Ver	nt VOC	Hg	0.14	0.005 0.44	0.02
R25/RM0602	R-25-Rod Mill Feed No. 6 Ver	nt VOC	Hg	0.14	0.005 0.44	0.02
R25/RM0702	R-25-Rod Mill Feed No. 7 Ver	nt VOC	Hg	0.14	0.005 0.44	0.02
R25/RM0802	R-25-Rod Mill Feed No. 8 Ver	nt VOC	Hg	0.14	0.005 0.44	0.02
R25A/S0101	R-25A-Vessel No. 1 Vent	VOC	Hg	0.32	0.001 1.19	0.003
R25A/S0201	R-25A-Vessel No. 2 Vent	VOC	Hg	0.32	0.001 1.19	0.003
R25A/S0301	R-25A-Vessel No. 3 Vent	VOC	Hg	0.32	0.001 1.19	0.003
R25A/S0401	R-25A-Vessel No. 4 Vent	VOC	Hg	0.32	0.001 1.19	0.003
R25A/S0501	R-25A-Vessel No. 5 Vent	VOC	Hg	0.32	0.001 1.19	0.003

Emission *	Source	Air Co	ntaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Nam	e (3)	1b/hr	TPY
R25A/S0601	R-25A-Vessel No. 6 Vent	VOC Hg	0.32	0.001 1.19	0.003
R25A/S0701	R-25A-Vessel No. 7 Vent	VOC Hg	0.32	0.001 1.19	0.003
R25A/S0801	R-25A-Vessel No. 8 Vent	VOC Hg	0.32	0.001 1.19	0.003
R30/L11X01	R-30-Low Temperature 1 Blo No. 1 Stack A	ow-Off Hg PM ₁ NaOH VOC	0.05 0.04	0.0006 0.05 0.17 0.11	0.002 0.17
R30/L11X02	R-30-Low Temperature 1 Blo No. 1 Stack B	ow Off Hg PM ₁ NaOH VOC	0.05 0.04	0.0006 0.05 0.17 0.11	0.002 0.17
R30/L12X01	R-30-Low temperatire 1 Blov	v Off	Hg 0.002		0.0006
	No. 2 Stack A	PM ₁ NaOH VOC		0.05 0.17 0.11	0.17
R30/L12X02	R-30-Low Temperature 1 Blo No. 2 Stack B	ow Off Hg PM ₁ NaOH VOC	0.05 0.04	0.0006 0.05 0.17 0.11	0.002 0.17
R30/L23X01	R-30-Low Temperature 2 Blo No. 3 Stack A	ow Off Hg PM ₁ NaOH	o 0.05	0.0006 0.05 0.17	0.002 0.17

Emission	Source	Ai	r Contan	ninant	Emission	Rates
<u>*</u> <u>Point No. (1)</u>	Name (2)		Name (3	3)	lb/hr	TPY
		VOC		0.04	0.11	
R30/L23X02	R-30-Low Temperature 2 Blo No. 3 Stack B	ow Off NaOH VOC	Hg PM ₁₀	0.05 0.04	0.0006 0.05 0.17 0.11	0.002 0.17
R30/L24X01	R-30-Low Temperature 2 Blo No. 4 Stack A	ow Off NaOH VOC	PM_{10}	0.05 0.04	0.0006 0.05 0.17 0.11	0.002 0.17
R30/L24X02	R-30-Low Temperature 2 Blo No. 4 Stack B	ow Off NaOH VOC	Hg PM ₁₀	0.05 0.04	0.0006 0.05 0.17 0.11	0.002 0.17
R30/L35X01	R-30-Low Temperature 3 Blo No. 5 Stack A	ow Off NaOH VOC	PM_{10}	0.05 0.04	0.0006 0.05 0.17 0.11	0.002 0.17
R30/L35X02	R-30-Low temp 3 Blow Off No. 5 Stack B	NaOH VOC	Hg PM ₁₀	0.05 0.04	0.0006 0.05 0.17 0.11	0.002 0.17
R30/L36X01	R-30-Low Temperature 3 Blo No. 6 Stack A	ow Off NaOH VOC	Hg PM ₁₀	0.05 0.04	0.0006 0.05 0.17 0.11	0.002 0.17
R30/L36X02	R-30-Low Temperature 3 Blo No. 6 Stack B	ow Off NaOH VOC	Hg PM ₁₀	0.05 0.04	0.0006 0.05 0.17 0.11	0.002 0.17

Emission *	Source	Ai	r Contai	ninant	<u>Emission</u>	Rates
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY
R30/L47X01	R-30-Low Temperature 4 Blo No. 7 Stack A	w Off NaOH VOC	Hg PM ₁₀	0.05 0.04	0.0006 0.05 0.17 0.11	0.002 0.17
R30/L47X02	R-30-Low Temperature 4 Blo No. 7 Stack B	w Off NaOH VOC	PM_{10}	0.05 0.04	0.0006 0.05 0.17 0.11	0.002 0.17
R30/L48X01	R-30-Low Temperature 4 Blo No. 8 Stack A	w Off NaOH VOC	PM_{10}	0.05 0.04	0.0006 0.05 0.17 0.11	0.002 0.17
R30/L48X02	R-30-Low Temperature 4 Blo No. 8 Stack B	w Off NaOH VOC	Hg PM ₁₀	0.05 0.04	0.0006 0.05 0.17 0.11	0.002 0.17
R40/HI0101	R-40-Heat Interchange Vacuum No. 1 Vent		Hg VOC		0.0005 0.05	0.001 0.15
R40/HI0201	R-40-Heat Interchange Vacuum No. 2 Vent		Hg VOC		0.0005 0.05	0.001 0.15
R40/HI0301	R-40-Heat Interchange Vacuum No. 3 Vent		Hg VOC		0.0005 0.05	0.001 0.15
R40/HI0401	R-40-Heat Interchange Vacuum No. 4 Vent		Hg VOC		0.0005 0.05	0.001 0.15
R40/HI0501	R-40-Heat Interchange Vacuum No. 5 Vent		Hg VOC		0.0005 0.05	0.001 0.15

Emission *	Source	Ai	r Contam	inant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY
R40/HI0601	R-40-Heat Interchange Vacuum No. 6 Vent		Hg VOC		0.0005 0.05	0.001 0.15
R45A/C0101	R-45A-Barometric Condense Vent No. 1	r	Hg VOC		<0.0001 0.01	0.0003 0.013
R45A/C0201	R-45A-Barometric Condense Vent No. 2	r	Hg VOC		<0.0001 0.01	0.0003 0.013
R45A/C0301	R-45A-Barometric Condense Vent No. 3	r	Hg VOC		<0.0001 0.01	0.0003 0.013
R45A/C0401	R-45A-Barometric Condense Vent No. 4	r	Hg VOC		<0.0001 0.01	0.0003 0.013
R42/04EV01	R-42-No. 4 Evaporation Vacuum Vent		Hg VOC		0.0006 0.02	0.002 0.05
R56/HF1201	R-56-Horizontal Filter No. 1 Vent		Hg VOC		0.0019 2.90	0.0078 12.08
1995 Permit source	es with changes					
R110/HP101	R-110-High Pressure Boiler No. 1	$\begin{array}{c} PM_{10} \\ NO_x \\ CO \\ SO_2 \end{array}$	VOC PM	4.43 65.86 37.54 2.32	0.44 4.43	
R110/HP201	R-110-High Pressure Boiler No. 2	PM_{10} NO_x CO SO_2	VOC PM	3.54 38.77 27.57 1.86	0.35 3.54	

Emission *	Source	Air Contaminant	<u>Emission Rates</u>
Point No. (1)	Name (2)	Name (3)	lb/hr TPY
R110/HP301	R-110-High Pressure Boiler No. 3	$\begin{array}{c} \text{VOC} \\ \text{PM} \\ \\ \text{PM}_{10} & 3.54 \\ \text{NO}_x & 34.40 \\ \text{CO} & 15.02 \\ \text{SO}_2 & 1.86 \\ \end{array}$	0.35 3.54
R110/HP411	R-110-High Pressure Boiler No. 4	$\begin{array}{c} \text{VOC} \\ \text{PM} \\ \\ \text{PM}_{10} \\ \text{NO}_{x} \\ \text{CO} \\ \text{SO}_{2} \\ \end{array} \begin{array}{c} 3.54 \\ 38.77 \\ \text{CO} \\ 27.57 \\ \text{SO}_{2} \\ \end{array}$	0.35 3.54
R110/HP501	R-110-High Pressure Boiler No. 5	$\begin{array}{c} \text{VOC} \\ \text{PM} \\ \\ \text{PM}_{10} \\ \text{NO}_{x} \\ \text{CO} \\ \text{SO}_{2} \\ \end{array} \begin{array}{c} 4.43 \\ 51.87 \\ \text{CO} \\ 38.22 \\ \text{SO}_{2} \\ \end{array}$	0.44 4.43
R110/HP611	R-110-High Pressure Boiler No. 6	$\begin{array}{c} \text{VOC} \\ \text{PM} \\ \\ \text{PM}_{10} & 4.95 \\ \text{NO}_x & 22.87 \\ \text{CO} & 14.10 \\ \text{SO}_2 & 2.59 \\ \end{array}$	0.50 4.95
R110/LP101	R-110-Low Pressure Boiler No. 1	$\begin{array}{c} \text{VOC} \\ \text{PM} \\ \\ \text{PM}_{10} \\ \text{NO}_{x} \\ \text{CO} \\ \text{CO} \\ \text{SO}_{2} \\ \end{array} \begin{array}{c} 2.84 \\ 20.29 \\ \text{CO} \\ 22.22 \\ \text{SO}_{2} \\ \end{array}$	0.25 2.84

Emission *	Source	Aiı	⁻ Contam	inant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY
R110/LP201	R-110-Low Pressure Boiler No. 2	PM ₁₀ NO _x CO SO ₂	VOC PM	2.84 26.47 76.70 1.31	0.25 2.84	
	Total of all boilers	PM PM ₁₀ NO _x CO SO ₂	VOC		99.83 99.83 942.19 737.88 50.21	10.27
R45/PAVX00	R-45 Precipitation Area Vess	PM PM ₁₀ NaOH VOC		Hg 0.01 10.69 10.69 10.69 0.95	47.45 47.45 47.45 3.59	0.0027
R50/K04711	R-50 Kilns Electrostatic Pred East Stack	PM ₁₀ NO _x CO SO ₂ Hg	VOC PM	60.00 421.08 16.16 1.00 0.0181	12.68 60.00	
R50/K04712	R-50 Kilns Electrostatic Pred West Stack	PM ₁₀ NO _x CO SO ₂ Hg	VOC PM	60.00 421.08 16.16 1.00 0.0181	12.68 60.00	

Emission *	Source	Ai	r Contam	inant	<u>Emission</u>	Rates
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY
R55-1/FC11	R-55-1 Flash Calciner (SGA) Electrostatic Precipitator	PM ₁₀ NO _x CO SO ₂ Hg	VOC PM	33.94 12.60 151.20 1.43 0.0181	14.75 33.94	
R55-2/FC11	R-55-2 Flash Calciner (SGA) Electrostatic Precipitator	PM ₁₀ NO _x CO SO ₂ Hg	VOC PM	18.86 13.50 162.00 1.57 0.0181	14.75 18.86	
R55-3/FC11	R-55-3 Flash Calciner (SGA) Electrostatic Precipitator	PM ₁₀ NO _x CO SO ₂ Hg	VOC PM	18.86 25.56 162.00 1.57 0.0181	14.75 18.86	
R55-1/FC11 R55-2/FC11 R55-3/FC11	R-55 Units - Hard Burn Production(all three calcine Electrostatic Precipitator	rs) NO _x CO SO ₂	VOC PM PM ₁₀	55.38 36.00 1.57	3.69 33.94 33.94	

Emission *	Source	Ai	r Conta	aminant	<u>Emission Rates</u>		
<u>Point No. (1)</u>	Name (2)		Name ((3)	lb/hr	TPY	
		Hg		0.0181			
R56-4FC11	R-56-4 Flash Calciner Electrostatic Precipitator	PM ₁₀ NO _x CO SO ₂ Hg	VOC PM	8.04 31.60 78.12 2.95 0.036	29.40 8.04		
	Total of calcination departme	ent PM PM ₁₀ NO _x CO SO ₂ Hg	VOC		246.87 246.87 266.39 1469.07 31.17 0.44	175.79	
R50/07AG11	R-50 No. 7 Air Gravity Conve	eyor		PM 0.38		0.12	
	Bag Collector		PM ₁₀	0.00	0.06	0.19	
R50/09AG11	R-50 No. 9 Air Gravity Conve	eyor		PM 0.66		0.15	
	Bag Collector		PM_{10}		0.15	0.66	
R51/ASVX11	R-51-Alumina Storage Vesse Bag Collector	el	PM PM ₁₀		0.22 0.22	0.94 0.94	
R53C/SVX11	R-53C Alumina Storage Ves Bag Collector	sel	PM PM ₁₀		0.29 0.29	0.50 0.50	
R52/BLCD11	R-52 Bulk Conveyor Transfe	r	PM		0.67	1.18	

AIR CONTAMINANTS DATA

Emission *	Source	Air Contam	inant	Emission	n Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
	Bag Collector	PM ₁₀		0.67	1.18
R52/BLCX21	R-52 Bulk Loading Chute -North		PM 1.89		1.08
	Bag Collector	PM ₁₀		1.08	1.89
R56/AHC221	R-56 Alumina Handling Conveyor No. 2 Tail No. 1 Bag Collector	PM PM ₁₀		0.15 0.15	0.66 0.66
R56/AHC231	R-56 Alumina Handling Conveyor No. 2 Tail No. 2 Bag Collector	PM PM ₁₀		0.15 0.15	0.66 0.66
Sources Previous	ly Under Permit Number 1475				
R51C/AVX11	R-51C- Al ₂ O ₃ Storage Vessel Bag Collector	PM PM ₁₀		6.00 6.00	26.00 26.00
R51E/05L11	R-51E-No. 5 Track Loading- Al ₂ 0	O ₃	PM 2.60		0.59
	Bag Collector	PM ₁₀	2.00	0.59	2.60
R51E/06L11	R-51E-No. 6 Track Loading- Al ₂ 0	O_3	PM 2.80		0.64
	Bag Collector	PM ₁₀	2.00	0.64	2.80
R51E/SPV11	R-51E- Al ₂ O ₃ Special Products Vessel Bag Collector	PM PM ₁₀		0.74 0.74	3.20 3.20
R51E/SVX11	R-51E- Al ₂ O ₃ Storage Vessel Bag Collector	PM PM ₁₀		1.10 1.10	4.80 4.80

Previously Grandfathered Sources From the C30 Hydrate Production Process

Emission *	Source	Air Contan	ninant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3	3)	1b/hr	TPY
R85/HD0111	R-85-No. 1 Hydrate Dryer Wet Scrubber	PM PM ₁₀		3.00 3.00	13.14 13.14
R85/HD0211	R-85-No. 2 Hydrate Dryer Wet Scrubber	PM PM ₁₀		3.00 3.00	13.14 13.14
R85/OSLX00	R 85 On Shore Lagoon (4)	PM M ₁₀	1.00	1.00 1.00	1.00
Previously Grand	fathered Sources from the AIF₃	<u>Process</u>			
R10/SDOS00	R-10-Spar Drop to Outside Storage (4)	PM PM ₁₀		0.01 0.01	0.01 0.01
R10/ST3D00	R-10-Spar Transfer No. 3 Conveyor to Drop (4)	PM PM ₁₀		0.01 0.01	0.01 0.01
R73C/RCL11	R-73C-Railcar Loading Bag Collector	PM PM_{10}		0.19 0.19	0.83 0.83
R8/SATXX01	R-8-Sulfuric Acid Tank Vent	H_2SO_4		1.00	1.00
R81/SULX11	R-81-Spar Unloading Bag Collector	PM PM ₁₀		0.19 0.19	0.83 0.83
R81/SV0101	R-81-Spar Vessel Vent No. 1	PM ⁄/ ₁₀	0.32	0.32 1.37	1.37
R81/SV0201	R-81-Spar Vessel Vent No. 2	PM И ₁₀	0.32	0.32 1.37	1.37
R81/SV0301	R-81-Spar Vessel Vent No. 3	PM M ₁₀	0.32	0.32 1.37	1.37
R82/SHXX11	R-82-Spar Handling Bag Collec	or	PM 4.12		0.94
	PI	/ 1 ₁₀	0.94	4.12	

Emission *	Source	Ai	r Contan	ninant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)		Name (3	3)	1b/hr	TPY
R83A/SAT01	R-83A-Sulfuric Acid Tank Ve	ent	H ₂ SO ₄		1.00	1.00
R83B/SAT01	R-83B-Sulfuric Acid Tank Ve	ent	H ₂ SO ₄		1.00	1.00
R83C/SAL01	R-83C-Sulfuric Acid Lift Tank Vent	<	H ₂ SO ₄		1.00	1.00
R83D/SAL01	R-83D-Sulfuric Acid Lift Tank Vent		H ₂ SO ₄		1.00	1.00
R84/AFC111	R-84-AIF3 -Converter No. 1 Wet Scrubber	HF H₂SO VOC	PM PM ₁₀	0.001 0.05 0.33	0.2 0.2	
R84/AFC211	R-84-AIF3 -Converter No. 2 Wet Scrubber	HF H₂SO VOC	PM PM ₁₀	0.001 0.05 0.33	0.2 0.2	
R84/AFC311	R-84-AIF3 -Converter No. 3 Wet Scrubber	HF H₂SO VOC	PM PM ₁₀	0.001 0.05 0.33	0.2 0.2	
R84/AFC411	R-84-AIF3 -Converter No. 4 Wet Scrubber	HF H₂SO VOC	PM PM ₁₀	0.001 0.05 0.33	0.2 0.2	
R84/AFC511	R-84-AlF3 -Converter No. 5 Wet Scrubber		PM PM ₁₀		0.2 0.2	

Emission *	Source	Air Contar	minant	<u>Emissior</u>	Rates
<u>*</u> Point No. (1)	Name (2)	Name (3	3)	lb/hr	TPY
		HF H ₂ SO ₄ VOC	0.001 0.05 0.33		
R84/AFC611	R-84-AIF3 -Converter No. 6 Wet Scrubber	$\begin{array}{c} \text{PM} \\ \text{PM}_{10} \\ \text{HF} \\ \text{H}_2 \text{SO}_4 \\ \text{VOC} \end{array}$	0.001 0.05 0.33	0.2 0.2	
	Total for all converters	$\begin{array}{c} PM \\ PM_{10} \\ HF \\ H_2 SO_4 \\ VOC \end{array}$		5.26 0.10 1.31 8.67	5.26
R84/AFEX11	R-84-AIF3 Elevator Bag Colle	ector PM ₁₀	PM 1.49 0.34	1.49	0.34
R84/HFF101	R-84-HF Furnace No. 1 Vent	PM_{10} SO_2 CO NO_x VOC HF	0.02 1.00 0.02 0.12 0.01 0.01	0.02	
R84/HFF201	R-84-HF Furnace No. 2 Vent	PM PM ₁₀ SO ₂ CO NO _x VOC HF	0.02 1.00 0.02 0.12 0.01 0.01	0.02	
R84/HFF301	R-84-HF Furnace No. 3 Vent	t PM		0.02	

Emission	Source	Air (Contaminant	<u>Emission</u>	Rates
<u>*</u> Point No. (1)	Name (2)	Na	ame (3)	lb/hr	TPY
		PM ₁₀ SO ₂ CO NO _x VOC HF	0.02 1.00 0.02 0.12 0.01 0.01		
R84/HFF401	R-84-HF Furnace No. 4 Ven	t PM_{10} SO_2 CO NO_x VOC HF	0.02 1.00 0.02 0.12 0.01 0.01	0.02	
R84/HFF501	R-84-HF Furnace No. 5 Ven	t PM_{10} SO_2 CO NO_x VOC HF	0.02 1.00 0.02 0.12 0.01 0.01	0.02	
R84/HFF601	R-84-HF Furnace No. 6 Vent	t PM_{10} SO_2 CO NO_x VOC HF	0.02 1.00 0.02 0.12 0.01 0.01	0.02	
	Total of all furnaces	PM ₁₀ SO ₂ CO NO _x		0.53 26.28 0.53 3.15	0.53

Emission *	Source	Air Contaminant	<u>Emission Rates</u>
<u>Point No. (1)</u>	Name (2)	Name (3)	lb/hr TPY
		VOC HF	0.27 0.27
R84/HFK111	R-84-HF Kiln No. 1-Gypsum Box Wet Scrubber	$\begin{array}{ccc} & PM & & \\ & PM_{10} & & \\ HF & & 0.86 \\ H_2SO_4 & & 1.33 \\ VOC & & 0.01 \\ \end{array}$	0.04 0.04
R84/HFK211	R-84-HF Kiln No. 2-Gypsum Box Wet Scrubber	$\begin{array}{ccc} & \text{PM} & & \\ & \text{PM}_{10} & & \\ \text{HF} & & 0.86 \\ \text{H}_2\text{SO}_4 & & 1.33 \\ \text{VOC} & & 0.01 \\ \end{array}$	0.04 0.04
R84/HFK311	R-84-HF Kiln No. 3-Gypsum Box Wet Scrubber	$\begin{array}{ccc} & PM & & \\ & PM_{10} & & \\ HF & & 0.86 \\ H_2SO_4 & & 1.33 \\ VOC & & 0.01 \\ \end{array}$	0.04 0.04
R84/HFK411	R-84-HF Kiln No. 4-Gypsum Box Wet Scrubber	$\begin{array}{ccc} & PM & & \\ & PM_{10} & & \\ HF & & 0.86 \\ H_2SO_4 & & 1.33 \\ VOC & & 0.01 \\ \end{array}$	0.04 0.04
R84/HFK511	R-84-HF Kiln No. 5-Gypsum Box Wet Scrubber	$\begin{array}{ccc} & \text{PM} & & \\ & \text{PM}_{10} & & \\ \text{HF} & & 0.86 \\ \text{H}_2 \text{SO}_4 & & 1.33 \\ \text{VOC} & & 0.01 \\ \end{array}$	0.04 0.04
R84/HFK611	R-84-HF Kiln No. 6-Gypsum Box Wet Scrubber	$\begin{array}{ccc} & \text{PM} & \\ & \text{PM}_{10} & \\ \text{HF} & & 0.86 \end{array}$	0.04 0.04

Emission *	Source	Ai	r Contar	minant	<u>Emissic</u>	n Rates
Point No. (1)	Name (2)		Name (3		1b/hr	TPY
		H₂SC VOC	04	1.33 0.01		
	Total for gypsum boxes	PM ₁₀ HF H ₂ SC VOC	PM		1.05 22.60 34.95 0.26	1.05
R84NZ/HS11	R-84 Hydrate Vessels Comm Stack(North) Bag Collector		PM PM ₁₀		0.03 0.03	0.03 0.03
R84NA/HS01	R-84-Hydrate Vessel Vent N	lo. 4 PM ₁₀		PM 0.03 0.03	0.03	0.03
R84NB/HS01	R-84-Hydrate Vessel Vent N	lo. 5 PM ₁₀		PM 0.03 0.03	0.03	0.03
R84NC/HS01	R-84-Hydrate Vessel Vent N	lo. 6 PM ₁₀		PM 0.03 0.03	0.03	0.03
R84SZ/HS11	R-84-Hydrate Storage Comr Stack(South) Bag Collector		PM PM ₁₀		0.03 0.03	0.03 0.03
R84SA/HS01	R-84-Hydrate Vessel Vent N	lo. 1 PM ₁₀		PM 0.03 0.03	0.03	0.03
R84SB/HS01	R-84-Hydrate Vessel Vent N	lo. 2 PM ₁₀		PM 0.03 0.03	0.03	0.03
R84SC/HS01	R-84-Hydrate Vessel Vent N	lo. 3		РМ		0.03

Emission *	Source	Air	Contam ⁻	inant	<u>Emission</u>	<u>Rates</u>
<u>*</u> <u>Point No. (1)</u>	Name (2)	Na	ame (3))	lb/hr	TPY
		PM ₁₀		0.03 0.03	0.03	
R86Z/AFS11	R-86A and R-86B AlF₃ Storag Common Stack Bag Collecto	,	M M ₁₀		0.08 0.08	0.08 0.08
Sources Previous	ly Under Standard Exemption	ns or Pe	rmits by	Rule		
B37/UOTX01	B-37-Used Oil Storage Tank	Vent		VOC 1.00		1.00
R10/DSTX01	R-10-Diesel Storage Tank Ve	ent V	OC		0.50	0.12
R10/UOTX01	R-10-Used Oil Storage Tank	Vent		VOC 1.00		1.00
R110/SBX01		N CO VOC SO ₂ PM ₁₀	IO _x	11.35 0.16 0.00 1.31	11.18 11.49 0.16 0.00 1.32	11.26
R111/UOT01	R-111-Used Oil Storage Tank			VOC 1.00	1.32	1.00
R148/SBN11	R-148-Sand Blasting-Machine Shop-North Bag Collector		M M ₁₀		0.50 0.50	0.30 0.30
R148/SBS11	R-148-Sand Blasting-Machine Shop-South Bag Collector		PM PM ₁₀		0.50 0.50	0.30 0.30
R15/DSTX01	R-15-Diesel Storage Tank Ve	ent V	OC		0.50	0.12
R25/PCL101	R-25 Pre Coat Lime Slaker No. 1 Vent		² M ₁₀		0.20 0.20	0.80 0.80
R25/PLS201	R-25 Process Lime Slaker No). 2		PM 0.80		0.20
	(spare) Vent	Р	M ₁₀	0.00	0.20	0.80

Emission *	Source	Ai	r Contam	inant	<u>Emission</u>	<u>Rates</u>
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY
R25/PLSX01	R-25 New Product Lime Slak Vent	er	PM PM ₁₀		0.20 0.20	0.80 0.80
R35/HCIX11	R-35-HCl Acid Storage Tank Wet Scrubber		HCI		0.12	0.54
R35M/D0100	R-35M-Dredge Lake No. 1 (4) PM ₁₀	РМ	0.30	0.40 0.15	0.18
R35M/D0200	R-35M-Dredge Lake No. 2 (4) PM ₁₀	РМ	0.30	0.40 0.15	0.18
R35M/L0400	R-35M-Lake No. 4 (4)	PM ₁₀	PM	10.00	11.80 4.49	5.20
R35M/LF300	R-35M-Landfill Site III (4)	PM ₁₀	PM	0.30	0.40 0.15	0.18
R35M/RLX00	R-35M-Recycle Lake (4)	PM ₁₀	PM	0.30	0.40 0.15	0.18
R35V/DFV11	R-35-V Flocculent vessel No. 1 Bag Collector		PM PM ₁₀		0.14 0.14	0.61 0.61
R35V/DFV21	R-35-V Flocculent vessel No. 2 Bag Collector		PM PM ₁₀		0.14 0.14	0.61 0.61
R38M/SBX11	R-38M-Sand Blasting Bag Collector		PM PM ₁₀		1.00 1.00	1.00 1.00
R38M/UOT01	R-38M-Used Oil Storage Tank Vent		VOC		1.00	1.00
R45/DSTX01	R-45-Diesel Storage Tank Ve	ent	VOC		0.50	0.12
R45/EXXX00	R-45-Ethanol Containers (4)		VOC		0.50	0.10
R45/OSVX11	R-45-Oxalate System Vessel Bag Collector		PM PM ₁₀		0.05 0.05	0.22 0.22

Emission *	Source A	air Contaminant	Emission	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
R42/HECV01	R42-High Efficiency Causticization Relief Vessel Vent Hg	PM PM ₁₀ VOC 0.0011	0.09 0.09 0.07 0.005	0.40 0.40 0.31
R42/HECP01	R42-High Efficiency Causticizatio Vacuum Pump Vent	n VOC Hg	0.02 0.0006	0.09 0.003
R50/#05LP11	R-50-No. 5 Low Lift Pot- Al ₂ O ₃ Bag Collector	PM PM ₁₀	0.26 0.26	1.16 1.16
R50/#07LP11	R-50-No. 7 Low Lift Pot- Al ₂ O ₃ Bag Collector	PM PM ₁₀	0.26 0.26	1.16 1.16
R50/01AG11	R-50-No. 1 Air Gravity Conveyor- Al ₂ O ₃ Bag Collector	PM PM ₁₀	0.26 0.26	1.16 1.16
R50/02AG21	R-50-No. 2 Air Gravity Conveyor - Al ₂ O ₃ Bag Collector	PM PM ₁₀ 0.19	0.12	0.38 0.06
R50/03AG21	R-50-No. 3 Air Gravity Conveyor - Al ₂ O ₃ Bag Collector	PM PM ₁₀ 0.19	0.12	0.38 0.06
R50/04AG21	R-50-No. 4 Air Gravity Conveyor - Al ₂ O ₃ Bag Collector	PM PM ₁₀ 1.16	0.26	1.16 0.26
R50/08AG11	R-50-No. 8 Air Gravity Conveyor - Al ₂ O ₃ Bag Collector	PM PM ₁₀ 0.19	0.12	0.38 0.06
R50/10AG11	R-50-No. 10 Air Gravity Conveyor - Al ₂ O ₃ Bag Collector	PM PM ₁₀ 1.30	0.30	1.30 0.30

Emission *	Source A	ir Contan	ninant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3	3)	1b/hr	TPY
R50/1AAG11	R-50-No. 1A Air Gravity Conveyor - Al ₂ O ₃ Bag Collector	РМ	PM ₁₀ 1.50	0.34	1.50 0.34
R50/2EAG11	R-50-No. 2E Air Gravity Conveyor - Al ₂ O ₃ Bag Collector	РМ	PM ₁₀ 1.16	0.26	1.16 0.26
R50/3EAG11	R-50-No. 3E Air Gravity Conveyor - Al ₂ O ₃ Bag Collector	РМ	PM ₁₀ 1.16	0.26	1.16 0.26
R50/4EAG11	R-50-No. 4E Air Gravity Conveyor - Al ₂ O ₃ Bag Collector	PM	PM ₁₀ 1.16	0.26	1.16 0.26
R50/56LP11	R-50-No. 5/6 Low Lift Pot - Al_2O_3		PM 1.16		0.26
	Bag Collector	PM_{10}	1.10	0.26	1.16
R50/67LP11	R-50-No. 6/7 Low Lift Pot - Al_2O_3		PM 1.16		0.26
	Bag Collector	PM_{10}	1.10	0.26	1.16
R50/ASPV11	R-50-Al ₂ O ₃ Special Products Vess Bag Collector	Sel PM PM ₁₀		6.00 6.00	25.00 25.00
R53/RCUX11	R-53-Railcar Unloading Bag Collector	PM PM ₁₀		1.37 1.37	6.01 6.01
R55-2/DB11	R-55-2-Flash Calciner Disengagir	ng	PM 0.30		0.08
	Box Bag Collector	PM_{10}	0.00	0.04	0.15

Emission	Source	Air Cont	aminant	<u>Emission</u>	n Rates
<u>*</u> Point No. (1)	Name (2)	Name	(3)	lb/hr	TPY
R55-3/DB11	R-55-3-Flash Calciner Disengaç		PM 0.30	•	0.08
	Box Bag Collector	PM_{10}	0.30	0.04	0.15
R55/01DB12	R-55-(1-2-3)Disengaging Box-S	pare 13.14	PM		3.00
	Bag Collector	PM ₁₀		3.00	13.14
R55/ESP211	R-55 ESP Dust Redigest Tank I	No. 2 0.24	PM		0.06
	Wet Scrubber	PM ₁₀		0.03	0.12
R56/ESP11	R-56 ESP Dust Redigest Tank I	No. 1 1.00	PM		6.00
	Wet Scrubber	PM ₁₀		6.00	1.00
R56/ESP211	R-56 ESP Dust Redigest tank N Wet Scrubber	lo. 2 PM PM ₁₀		6.00 6.00	1.00 1.00
R56/HSRX01	R-56-Hydrate Storage drop to conveyor (4)	PM PM ₁₀		2.20 2.20	1.19 1.19
R56/HSRX02	R-56-Hydrate Storage drop to stockpile (4)	PM PM ₁₀		2.20 2.20	1.19 1.19
R56/HSRX03	R-56-Hydrate Storage stockpile (4)	PM PM ₁₀		2.20 2.20	1.19 1.19
R56/HSRX14	R-56-Hydrate Storage drop into hopper (4)	PM PM ₁₀		0.60 0.60	0.32 0.32
R56/HSRX15	R-56-Hydrate Storage- drop to reclaim conveyor (4)	PM PM ₁₀		0.60 0.60	0.32 0.32
R56/HSRX16	R-56-Hydrate Storage- drop to slurry tank (4)	PM PM ₁₀		0.60 0.60	0.32 0.32

AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
R56/HRCX21	R-56 Hydrate Railcar Loading Drop from Loader Bucket Into Conveyor Hopper (4)	PM PM ₁₀	1.1 0.55	1.19 0.59
R56/HRCX22	R-56 Hydrate Railcar Loading Drop from Hopper to Conveyor (4)	PM PM ₁₀	1.1 0.55	1.19 0.59
R56/HRCX23 Con	R-56 Hydrate Railcar Loading veyor Drop into Railcar (4)	PM PM ₁₀	1.1 0.55	1.19 0.59

Note: Hydrate Railcar Loading (EPNs R56/HRCX21, R56/HRCX22, and R56/HRCX23) will not operate at the same time as R56 Hydrate Reclaim (EPNs R56/HSRX14, R56/HSRX15, and R56/HSRX16), or R56 Hydrate Truck Loading (EPN) R56/HTLX31.

R56/HTLX31	R-56 Hydrate Truck Loading	PM	1.1	1.19
	Drop from Loader Bucket into	PM_{10}	0.55	0.59
	Truck (4)			

Note: R56 Hydrate Truck Loading (EPN R56/HTLX31) will not operate at the same time as R-56 Hydrate Reclaim (EPNs R56/HSRX14, R56/HSRX15, and R56/HSRX16) or R56 Hydrate Railcar Loading (EPNs R56/HRCX21, R56/HRCX22, and R56/HRCX23).

R8/SHTXX01	R-8-Starch Vessel Vent \mbox{PM}_{10}	PM	6.00	6.00 10.00	10.00
R80/SPAR01	R80 Spar Stockpile Transfer (4) PM_{10}	PM	6.00	6.00 1.00	1.00
R81/SDXX11	R-81-Spar Drying Bag Collector PM_{10}	PM	0.87	0.87 3.83	3.83
R81/SGXX11	R-81-Spar Grinding Bag Collector PM_{10}		PM 0.83 0.19	0.83	0.19

Emission	Source	Air Contam	inant	<u>Emissio</u>	n Rates
* Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
R85/HH0211	R-85-Hydrate Handling No. 2	PM		0.03	1.18
	Bag Collector	PM_{10}		0.03	1.18
R85/HH0111	R-85-Hydrate Handling No. 1	PM		0.03	1.18
	Bag Collector	PM_{10}		0.03	1.18
R85B/HSV11	R-85B-Hydrate Storage	PM		0.06	0.60
	Bag Collector	PM_{10}		0.06	0.60
Sources Previous	sly Under A Standard Permit				
R84/SF1X11	R-84-WT Spar Feed No. 1	PM		0.36	1.11
	Bag Collector	PM_{10}		0.36	1.11
R84/SF1611	R-84-WT Spar Feed Nos. 2, 3,	PM		1.44	4.42
110 1/01 1011	4, and 5 Bag Collector	PM ₁₀		1.44	4.42
R84/SF6X11	R-84-WT Spar Feed No. 6	PM		0.36	1.11
1104/31 0/11	Bag Collector	PM ₁₀		0.36	1.11
Previously Grand	fathered Sources from the Bay	er Process			
				4.00	1.00
B37/GXXX00	B-37-Garage (4)	VOC		1.00	1.00
B60/S00600	B-60-Smelting Lagoon (4)	VOC		1.00	1.00
R10/SADX00	R-10 Sulfuric Acid Unloading Dock (4)	H ₂ SO ₄		1.00	1.00
R110/05D01	R-110 5 lb Deaerator Ve H	ent VOC g	0.0005	0.0002 0.002	0.0006
D110/0FD01	R-110 95 lb Deaerator V	/on+ \/0C		0.07	0.29
R110/95D01		g	0.0003	0.07	0.29
P110 /CT)/01				0.10	0 50
R110/CTX01	R-110 Cooling Tower (4)	PM M ₁₀	0.10	0.10 0.50	0.50
R111/GXX00	R-111-Garage (4)	VOC		1.00	1.00

Emission	Source Ai	r Contaminant	Emission	Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	ГРҮ
R115/STP01	R-115 Sanitary Treatment F		1	.00
R148/MSX11	R-148 Machine Shop Sand Bl	lasting PM 1.00	1	.00
	Bag Collector	PM_{10}	1.00 1	.00
R25/RM0101	R-25-Rod Mill No. 1 Vent Hg	VOC 0.005	0.14 0 0.02	.44
R25/RM0201	R-25-Rod Mill No. 2 Vent Hg	VOC 0.005	0.14 0 0.02	. 44
R25/RM0301	R-25-Rod Mill No. 3 Vent Hg	VOC 0.005	0.14 0 0.02	. 44
R25/RM0401	R-25-Rod Mill No. 4 Vent Hg	VOC 0.005	0.14 0 0.02	. 44
R25/RM0501	R-25-Rod Mill No. 5 Vent Hg	VOC 0.005	0.14 0 0.02	. 44
R25/RM0601	R-25-Rod Mill No. 6 Vent Hg	VOC 0.005	0.14 0 0.02	.44
R25/RM0701	R-25-Rod Mill No. 7 Vent Hg	VOC 0.005	0.14 0 0.02	.44
R25/RM0801	R-25-Rod Mill No. 8 Vent Hg	VOC 0.005	0.14 0 0.02	.44
R31/RTXX01	R-31 Relief Tank (Unit 6)	(4)	VOC 0 3.50	.80
R33/RTXX01	R-33 Relief Tank (Unit 5)	(4)	VOC 0	.80

Emission *	Source	Air Contaminant	<u>Emissic</u>	on Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
			3.50	
R35/STXX00	R-35-Secondary Thickener	s Vent	VOC	2.00
·	-		5.00	
	Hg	0.001	0.004	
R35/PSBX00	R-35 Painting and Sand	PM	0.06	0.24
,	Blasting (4)	PM ₁₀	0.03	.12
	VOC		5.91	
R35/WTAX00	R-35-Washer Train A Vent	s VOC	2.00	5.00
11337 117 1700	Hg	0.20	0.90	3.00
	9	0.120		
R35/WTBX00	R-35-Washer Train B Vent	s VOC	2.00	5.00
•	Hg	0.20	0.90	
R35M/CLX00	R-35M-Clear Lake (4)	PM	0.40	0.18
N3311/ CEXOO	PM ₁		0.15	0.10
		.0	0.20	
R35M/L1X00	R-35M-Lake No. 1 (4)	PM	0.40	0.18
•	PM ₁	0.30	0.15	
R35M/L2X00	R-35M-Lake No. 2 (4)	PM	11.80	5.20
KJJM/ LZXOO	PM ₁		4.40	3.20
	,	0 10.00	11.10	
R35M/L3X00	R-35M-Lake No. 3 (4)	PM	0.40	0.18
·	PM ₁	0.30	0.15	
R35M/RWX00	R-35M Raw Water Lake (4)	PM	0.40	0.18
	PM ₁	0.30	0.15	
R35M/SLX00	R-35M Storm Lake (4)	PM	5.70	2.50
NOON IN SERVO	PM ₁		1.10	2.30
	,,,,	J	2.20	
R35V/FS201	R-35V Flocculent Tank -	South	VOC	3.59
		0.37		
	No. 2 Vent			

Emission *	Source	Ai	r Contaminant	<u>Emission</u>	n Rates
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY
R45/GSTX01	R-45 Gasoline Storage	Tank		VOC	1.00
R50/A1XX11	R-50 Alumina Handling Collector	(A)	PM PM ₁₀	0.43 0.43	1.88 1.88
R50/A2XX11	R-50 Alumina Handling Collector	(B)	PM PM ₁₀	0.43 0.43	1.88 1.88
R50/KVAX01	R-50 Kiln Vacuum Pump Vent	Α	VOC	3.00	11.83
R50/KVBX01	R-50 Kiln Vacuum Pump Vent	В	VOC	3.00	11.83
R50/K04X03	R-50-Kiln Vent No. 4	PM ₁₀	PM 92.90	92.90 4.65	4.65
R50/K05X03	R-50-Kiln Vent No. 5	PM_{10}	PM 92.90	92.90 4.65	4.65
R50/K06X03	R-50-Kiln Vent No. 6	PM ₁₀	PM 92.90	92.90 4.65	4.65
R50/K07X03	R-50-Kiln Vent No. 7	PM ₁₀	PM 92.90	92.90 4.65	4.65
R55/HF1401	R-55-Horizontal Filter	r Nos	6.4	VOC	6.48
	1, 2, 3, and 4 Vent		Hg	0.004	0.016
R55-1/DB11	R-55-1 Flash Calciner	Dise 0.30	ngaging	PM	0.08
	Box Bag Collector		PM_{10}	0.04	0.15

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
R60/LCDX11	R-60 Lime Conveyor Disc	harge 36.18	PM	8.26
	Bag Collector	PM ₁₀	8.26	36.18
R60/LTXX11	R-60-Lime Transfer/Stor	age/Transfer 10.80	PM	2.47
	Bag Collector	PM ₁₀	2.47	10.80

- (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) PM-particulate matter, suspended in the atmosphere, including PM_{10} .
 - PM_{10} particulate matter 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.
 - Hg mercury
 - VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NaOH sodium hydroxide
 - Al₂O₃ alumina
 - NO_x nitrogen oxide
 - CO carbon monoxide
 - SO₂ sulfur dioxide
 - H₂SO₄ sulfuric acid
 - HF hydrogen fluoride
 - HCl hydrochloric acid
 - Cl chlorine
- (4) Fugitive emissions are an estimate only.
- * Emission rates are based on and the facilities are limited by the

Emission Source

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Air Contaminant <u>Emission Rates</u>

*		
Point No. (1) Name (2)	Name (3)	lb/hr TPY
following maximum operating schedule rates as listed in Special Condition		t and production
<u>24</u> Hrs/day <u>7</u> Days/weel Hrs/year	k <u>52</u> Weeks/yea	ar or <u>8,760</u>
	Dated	April 15, 2004