Permit Number 56300

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	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
10C1	Scrubber 10S7N	PM	3.84	16.82
	Potline 3	PM_{10}	2.73	11.94
		NO_x	0.15	0.68
		CO	182.82	799.87
		SO_2	12.50	53.74
		COS	1.30	5.70
		PF	5.05	22.13
	<i>k</i>	HF	1.15	5.02
10C2	Scrubber 10S7S Potline 3	• PM	2.04	16 02
1002	Potline 3	PIVI	3.84	16.82
	Politie 3		2.73	11.94
		NO _x	0.15	0.68
		CO	182.82 12.50	799.87
		SO ₂ COS		53.74 5.70
		PF	1.30 5.05	5.70 22.13
		HF	1.15	5.02
		ПГ	1.13	3.02
10C3	Scrubber 10S8N	PM	3.84	16.82
	Potline 3	PM_{10}	2.73	11.94
		NO_x	0.15	0.68
		CO	182.82	799.87
		SO_2	12.50	53.74
		COS	1.30	5.70
		PF	5.05	22.13
		HF	1.15	5.02
10C4	Scrubber 10S8S	PM	3.84	16.82
1004	Potline 3	PM_{10}	2.73	11.94
	1 othine 5	NO _x	0.15	0.68
		CO	182.82	799.87
		SO₂	12.50	53.74
		COS	1.30	5.70
		PF	5.05	22.13
		HF	1.15	5.02
		111	1.10	5.02

Emission	Source	Air Contaminant	Emissio	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
10C5	Potline	PM	3.84	16.82
	Potline 3	PM_{10}	2.73	11.94
		NO_x	0.15	0.68
		CO	182.82	799.87
		SO_2	12.50	53.74
		COS	1.30	5.70
		PF	5.05	22.13
		HF	1.15	5.02
10C6	Potline	PM	3.84	16.82
	Potline 3	PM_{10}	2.73	11.94
		NO_x	0.15	0.68
		CO	182.82	799.87
		SO_2	12.50	53.74
		COS	1.30	5.70
	QPX	PF	5.05	22.13
	ORAF	HF	1.15	5.02
10C7	Scrubber 10S7NW	РМ	3.84	16.82
	Potline 3	PM_{10}	2.73	11.94
		NO_x	0.15	0.68
		CO	182.82	799.87
		SO_2	12.50	53.74
		COS	1.30	5.70
		PF	5.05	22.13
		HF	1.15	5.02
10C8	Scrubber 10S7SW	PM	3.84	16.82
	Potline 3	PM_{10}	2.73	11.94
		NO_x	0.15	0.68
		CO	182.82	799.87
		SO_2	12.50	53.74
		COS	1.30	5.70
		PF	5.05	22.13
		HF	1.15	5.02
F10C-1	Roof Monitor	PM	6.40	28.03
	Potline 3	PM_{10}	3.71	16.26
		NO _x	0.01	0.03
		CO	5.59	24.49
		SO ₂	0.75	3.29

Emission	Source	Air Contaminant		on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		COS PF HF	0.08 2.06 2.28	0.34 9.02 10.00
F10C-2	Roof Monitor Potline 3	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \\ HF \end{array}$	6.40 3.71 0.01 5.59 0.75 0.08 2.06 2.28	28.03 16.26 0.03 24.49 3.29 0.34 9.02 10.00
F10C-3	Roof Monitor Potline 3	PM PM ₁₀ NO _x CO SO ₂ COS PF HF	6.04 3.71 0.01 5.59 0.75 0.08 2.06 2.28	28.03 16.26 0.03 24.49 3.29 0.34 9.02 10.00
F10C-4	Roof Monitor Potline 3	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \\ HF \end{array}$	6.40 3.71 0.01 5.59 0.75 0.08 2.06 2.28	28.03 16.26 0.03 24.49 3.29 0.34 9.02 10.00
10D1	Scrubber 10S10N Potline 4	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \end{array}$	3.66 3.66 0.15 234.80 12.50 1.30 0.54	16.01 16.01 0.68 1028.41 54.74 5.70 2.37

Emission	Source	Air Contaminant	<u>Emissi</u> lb/hr	on Rates TPY
Point No. (1)	Name (2)	Name (3)	ID/III	<u>IPT</u>
		HF	1.01	4.44
10D2	Scrubber 10S10S Potline 4	PM PM ₁₀	3.66 3.66	16.01 16.01
	Polime 4			
		NO _x	0.15	0.68
		CO	234.80	1028.41
		SO ₂	12.50	54.74
		COS	1.30	5.70
		PF	0.54	2.37
		HF	1.01	4.44
10D3	Scrubber 10S11N	PM	3.66	16.01
	Potline 4	PM_{10}	3.66	16.01
	,	NO_x	0.15	0.68
	ORAF	CO	234.80	1028.41
	O by	SO_2	12.50	54.74
		COS	1.30	5.70
	V	PF	0.54	2.37
		HF	1.01	4.44
10D4	Scrubber 10S11S	PM	3.66	16.01
	Potline 4	PM_{10}	3.66	16.01
		NO_x	0.15	0.68
		CO	234.80	1028.41
		SO_2	12.50	54.74
		COS	1.30	5.70
		PF	0.54	2.37
		HF	1.01	4.44
10D5	Scrubber 12N	PM	3.66	16.01
	Potline 4	PM_{10}	3.66	16.01
		NO_x	0.15	0.68
		CO	234.80	1028.41
		SO ₂	12.50	54.74
		COS	1.30	5.70
		PF	0.54	2.37
		HF	1.01	4.44

Emission	Source	Air Contaminant	<u>Emissi</u>	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
10D6	Scrubber 12S Potline 4	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \\ HF \end{array}$	3.66 3.66 0.15 234.80 12.50 1.30 0.54 1.01	16.01 16.01 0.68 1028.41 54.74 5.70 2.37 4.44
10D-7	Scrubber 10S1L Potline 4	PM PM ₁₀ NO _x CO SO ₂ COS PF HF	3.66 3.66 0.15 234.80 12.50 1.30 0.54 1.01	16.01 16.01 0.68 1028.41 54.74 5.70 2.37 4.44
10D-8	Scrubber 10S12 Potline 4	PM PM ₁₀ NO _x CO SO ₂ COS PF HF	3.66 3.66 0.15 234.80 12.50 1.30 0.54 1.01	16.01 16.01 0.68 1028.41 54.74 5.70 2.37 4.44
10D-9	Scrubber 10S12 Potline 4	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \\ HF \end{array}$	3.66 3.66 0.15 234.80 12.50 1.30 0.54 1.01	16.01 16.01 0.68 1028.41 54.74 5.70 2.37 4.44
F10D-1	Roof Monitor Potline 4	PM PM ₁₀	6.40 3.71	28.03 16.26

Emission	Source	Air Contaminant	Emissio	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		NO _x CO SO ₂ COS PF HF	0.01 7.19 0.75 0.08 1.07 1.27	0.02 31.48 3.29 0.34 4.68 5.57
F10D-2	Roof Monitor Potline 4 Roof Monitor	PM PM ₁₀ NO _x CO SO ₂ COS PF HF	6.40 3.71 0.01 7.19 0.75 0.08 1.07 1.27	28.03 16.26 0.02 31.48 3.29 0.34 4.68 5.57
F10D-3	Roof Monitor Potline 4	PM PM ₁₀ NO _x CO SO ₂ COS PF HF	6.40 3.71 0.01 7.19 0.75 0.08 1.07 1.27	28.03 16.26 0.02 31.48 3.29 0.34 4.68 5.57
F10D-4	Roof Monitor Potline 4	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \\ HF \end{array}$	6.40 3.71 0.01 7.19 0.75 0.08 1.07 1.27	28.03 16.26 0.02 31.48 3.29 0.34 4.68 5.57
10E1	Fluid Bed Reactor - 51N Potline 5	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \end{array}$	2.81 2.81 0.10 121.75	12.29 12.29 0.45 533.25

Emission	Source	Air Contaminant	Emissio	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		SO ₂ COS PF HF	16.34 1.70 0.18 0.08	71.55 7.45 0.77 0.36
10E2	Fluid Bed Reactor 52N Potline 5 Fluid Bed Reactor 53N	PM PM ₁₀ NO _x CO SO ₂ COS PF HF	2.81 0.10 121.75 16.34 1.70 0.18 0.08	12.29 12.29 0.45 533.25 71.55 7.45 0.77 0.36
10E3	Fluid Bed Reactor 53N R	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \\ HF \end{array}$	2.81 2.81 0.10 121.75 16.34 1.70 0.18 0.08	12.29 12.29 0.45 533.25 71.55 7.45 0.77 0.36
10E4	Fluid Bed Reactor 54N Potline 5	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \\ HF \end{array}$	2.81 2.81 0.10 121.75 16.34 1.70 0.18 0.08	12.29 12.29 0.45 533.25 71.55 7.45 0.77 0.36
10E5	Fluid Bed Reactor 55S Potline 5	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \end{array}$	2.81 2.81 0.10 121.75 16.34 1.70	12.29 12.29 0.45 533.25 71.55 7.45

Emission	Source	Air Contaminant	Emissio	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		PF HF	0.18 0.08	0.77 0.36
10E6	Fluid Bed Reactor 56S Potline 5	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \\ HF \end{array}$	2.81 2.81 0.10 121.75 16.34 1.70 0.18 0.08	12.29 12.29 0.45 533.25 71.55 7.45 0.77 0.36
10E7	Fluid Bed Reactor 57S Potline 5	PM PM ₁₀ NO _x CO SO ₂ COS PF HF	2.81 2.81 0.10 121.75 16.34 1.70 0.18 0.08	12.29 12.29 0.45 533.25 71.55 7.45 0.77 0.36
10E8	Fluid Bed Reactor 58S Potline 5	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \\ HF \end{array}$	2.81 2.81 0.10 121.75 16.34 1.70 0.18 0.08	12.29 12.29 0.45 533.25 71.55 7.45 0.77 0.36
10E9	Fluid Bed Reactor 59S Potline 5	PM PM ₁₀ NO _x CO SO ₂ COS PF HF	2.81 2.81 0.10 121.75 16.34 1.70 0.18 0.08	12.29 12.29 0.45 533.25 71.55 7.45 0.77 0.36

Emission	Source	Air Contaminant	Emission	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
10E10	Potline	PM	0.04	0.16
	Potline 5	PM_{10}	0.04	0.16
		PF	<0.01	0.01
10E11	Potline	PM	0.04	0.16
	Potline 5	PM_{10}	0.04	0.16
		PF	<0.01	0.01
F10E-1	Roof Monitor	PM	6.40	28.03
	Potline 5	PM_{10}	3.71	16.26
		NO_x	0.01	0.03
		CO	5.59	24.49
		SO_2	0.75	3.29
	- C	COS	0.08	0.34
	SRAF	PF	1.94	8.50
	OK.	HF	1.28	5.59
F10E-2	Roof Monitor	PM	6.40	28.03
	Potline 5	PM_{10}	3.71	16.26
		NO_x	0.01	0.03
		CO	5.59	24.49
		SO_2	0.75	3.29
		COS	0.08	0.34
		PF	1.94	8.50
		HF	1.28	5.59
F10E-3	Roof Monitor	PM	6.40	28.03
	Potline 5	PM_{10}	3.71	16.26
		NO_x	0.01	0.03
		CO	5.59	24.49
		SO_2	0.75	3.29
		COS	0.08	0.34
		PF	1.94	8.50
		HF	1.28	5.59
F10E-4	Roof Monitor	PM	6.40	28.03

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emissio</u> lb/hr	on Rates TPY
1 OITE 110. (1)	Name (2)	rvaine (5)	10/111	
	Potline 5	PM_{10}	3.71	16.26
		NO_x	0.01	0.03
		CO	5.59	24.49
		SO_2	0.75	3.29
		COS	0.08	0.34
		PF	1.94	8.50
		HF	1.28	5.59
10F1	Potline	PM	2.30	10.09
	Potline 6	PM_{10}	1.64	7.16
		NO_x	0.09	0.40
		CO	138.00	604.45
		SO_2	7.34	32.17
		, COS	0.77	3.35
		PF	0.86	3.76
	SRAF	HF	0.93	4.06
	Okc			
10F2	Potline	PM	2.30	10.09
101 2	Potline 6	PM ₁₀	1.64	7.16
	1 danie d	NO _x	0.09	0.40
		CO	138.00	604.45
		SO ₂	7.34	32.17
		COS	0.77	3.35
		PF	0.86	3.76
		HF	0.93	4.06
1002	Dotlino	DM4	2.20	10.00
10F3	Potline C	PM	2.30	10.09
	Potline 6	PM_{10}	1.64	7.16
		NO _x CO	0.09 138.00	0.40 604.45
				32.17
		SO ₂ COS	7.34 0.77	32.17
		PF	0.77	3.35 3.76
		HF	0.86	3.76 4.06
		HE	0.33	4.00
10F4	Potline	PM	2.30	10.09
	Potline 6	PM_{10}	1.64	7.16
		NO _x	0.09	0.40

Emission	Source	Air Contaminant <u>Emission R</u>		on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		CO SO ₂ COS PF HF	138.00 7.34 0.77 0.86 0.93	604.45 32.17 3.35 3.76 4.06
10F5	Potline 6 Potline 6	PM PM ₁₀ NO _x CO SO ₂ COS PF HF	2.30 1.64 0.09 138.00 7.34 0.77 0.86 0.93	10.09 7.16 0.40 604.45 32.17 3.35 3.76 4.06
10F6	Potline Potline 6	PM PM ₁₀ NO _x CO SO ₂ COS PF HF	2.30 1.64 0.09 138.00 7.34 0.77 0.86 0.93	10.09 7.16 0.40 604.45 32.17 3.35 3.76 4.06
10F7	Potline Potline 6	PM PM ₁₀ NO _x CO SO ₂ COS PF HF	2.30 1.64 0.09 138.00 7.34 0.77 0.86 0.93	10.09 7.16 0.40 604.45 32.17 3.35 3.76 4.06
10F8	Potline Potline 6	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \end{array}$	2.30 1.64 0.09 138.00 7.34	10.09 7.16 0.40 604.45 32.17

Emission	Source	Air Contaminant	Emissio	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		COS PF HF	0.77 0.86 0.93	3.35 3.76 4.06
10F9	Potline Potline 6	PM PM ₁₀ NO _x CO SO ₂ COS PF HF	2.30 1.64 0.09 138.00 7.34 0.77 0.86 0.93	10.09 7.16 0.40 604.45 32.17 3.35 3.76 4.06
10F10	Potline Potline 6	PM PM ₁₀ NO _x CO SO ₂ COS PF HF	2.30 1.64 0.09 138.00 7.34 0.77 0.86 0.93	10.09 7.16 0.40 604.45 32.17 3.35 3.76 4.06
10F11	Potline Potline 6	PM PM ₁₀ NO _x CO SO ₂ COS PF HF	2.30 1.64 0.09 138.00 7.34 0.77 0.86 0.93	10.09 7.16 0.40 604.45 32.17 3.35 3.76 4.06
10F12	Potline Potline 6	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \end{array}$	2.30 1.64 0.09 138.00 7.34 0.77 0.86	10.09 7.16 0.40 604.45 32.17 3.35 3.76

Emission	Source	Air Contaminant	<u>Emissio</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		HF	0.93	4.06
F10F-1	Roof Monitor Potline 6	PM PM ₁₀ NO _x CO SO ₂ COS PF HF	6.40 3.71 0.01 14.38 1.50 0.16 1.60 2.49	28.03 16.26 0.04 62.96 6.57 0.68 7.03 10.92
F10F-2	Roof Monitor Potline 6	PM PM ₁₀ NO _x CO SO ₂ COS PF HF	6.40 3.71 0.01 14.38 1.50 0.16 1.60 2.49	28.03 16.26 0.04 62.96 6.57 0.68 7.03 10.92
F10F-3	Roof Monitor Potline 6	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \\ HF \end{array}$	6.40 3.71 0.01 14.38 1.50 0.16 1.60 2.49	28.03 16.26 0.04 62.96 6.57 0.68 7.03 10.92
F10F-4	Roof Monitor Potline 6	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \\ HF \end{array}$	6.40 3.71 0.01 14.38 1.50 0.16 1.60 2.49	28.03 16.26 0.04 62.96 6.57 0.68 7.03 10.92

Emission	Source	Air Contaminant	Emissio	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
10G1	Fluid Bed Reactor 71E Potline 7	$\begin{array}{c} PM \\ PM_{10} \\ NO_{X} \\ CO \\ SO_{2} \\ COS \\ PF \\ HF \end{array}$	3.15 3.15 0.11 131.50 17.66 1.84 0.06 0.08	13.79 13.79 0.49 575.99 77.28 8.05 0.26 0.35
10G2	Fluid Bed Reactor 72E Potline 7	PM PM ₁₀ NO _x CO SO ₂ COS PF HF	3.15 3.15 0.11 131.50 17.66 1.84 0.06 0.08	13.79 13.79 0.49 575.99 77.28 8.05 0.26 0.35
10G3	Fluid Bed Reactor 73E Potline 7	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \\ HF \end{array}$	3.15 3.15 0.11 131.50 17.66 1.84 0.06 0.08	13.79 13.79 0.49 575.99 77.28 8.05 0.26 0.35
10G4	Fluid Bed Reactor 74E Potline 7	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \\ HF \end{array}$	3.15 3.15 0.11 131.50 17.66 1.84 0.06 0.08	13.79 13.79 0.49 575.99 77.28 8.05 0.26 0.35
10G5	Fluid Bed Reactor 75E Potline 7	PM PM ₁₀	3.15 3.15	13.79 13.79

Emission	Source	Air Contaminant		n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		NO _x CO SO ₂ COS PF HF	0.11 131.50 17.66 1.84 0.06 0.08	0.49 575.99 77.28 8.05 0.26 0.35
10G6	Fluid Bed Reactor 76E Potline 7	PM PM ₁₀ NO _x CO SO ₂ COS PF HF	3.15 3.15 0.11 131.50 17.66 1.84 0.06 0.08	13.79 13.79 0.49 575.99 77.28 8.05 0.26 0.35
10G7	Fluid Bed Reactor 71W Potline 7	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \\ HF \end{array}$	3.15 3.15 0.11 131.50 17.66 1.84 0.06 0.08	13.79 13.79 0.49 575.99 77.28 8.05 0.26 0.35
10G8	Fluid Bed Reactor 72W Potline 7	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \\ HF \end{array}$	3.15 3.15 0.11 131.50 17.66 1.84 0.06 0.08	13.79 13.79 0.49 575.99 77.28 8.05 0.26 0.35
10G9	Fluid Bed Reactor 73W Potline 7	PM PM ₁₀ NO _x CO	3.15 3.15 0.11 131.50	13.79 13.79 0.49 575.99

Emission	Source	Air Contaminant	Emissio	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		SO ₂ COS PF HF	17.66 1.84 0.06 0.08	77.28 8.05 0.26 0.35
10G10	Fluid Bed Reactor 74W Potline 7	PM PM ₁₀ NO _x CO SO ₂ COS PF HF	3.15 3.15 0.11 131.50 17.66 1.84 0.06 0.08	13.79 13.79 0.49 575.99 77.28 8.05 0.26 0.35
10G11	Fluid Bed Reactor 75W Potline 7	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \\ HF \end{array}$	3.15 3.15 0.11 131.50 17.66 1.84 0.06 0.08	13.79 13.79 0.49 575.99 77.28 8.05 0.26 0.35
10G12	Fluid Bed Reactor 76W Potline 7	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \\ HF \end{array}$	3.15 3.15 0.11 131.50 17.66 1.84 0.06 0.08	13.79 13.79 0.49 575.99 77.28 8.05 0.26 0.35
10G13	Reacted Aluminum Baghouse	PM/PM ₁₀ PF	0.03 <0.01	0.13 <0.01
10G14	Reacted Aluminum Baghouse	PM/PM ₁₀ PF	0.03 <0.01	0.13 <0.01

Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
F10G-1	Roof Monitor Potline 7	PM ₁ PM ₁₀ NO _x CO SO ₂ COS PF HF	9.17 5.32 0.01 6.01 0.81 0.08 3.04 1.91	40.16 23.29 0.03 26.31 3.53 0.37 13.33 8.36
F10G-2	Roof Monitor Potline 7	PM ₁ PM ₁₀ NO _x CO SO ₂ COS PF HF	9.17 5.32 0.01 6.01 0.81 0.08 3.04 1.91	40.16 23.29 0.03 26.31 3.53 0.37 13.33 8.36
F10G-3	Roof Monitor Potline 7	$\begin{array}{c} PM_1 \\ PM_{10} \\ NO_{x} \\ CO \\ SO_2 \\ COS \\ PF \\ HF \end{array}$	9.17 5.32 0.01 6.01 0.81 0.08 3.04 1.91	40.16 23.29 0.03 26.31 3.53 0.37 13.33 8.36
F10G-4	Roof Monitor Potline 7	$\begin{array}{c} PM_1 \\ PM_{10} \\ NO_x \\ CO \\ SO_2 \\ COS \\ PF \end{array}$	9.17 5.32 0.01 6.01 0.81 0.08 3.04	40.16 23.29 0.03 26.31 3.53 0.37 13.33

Emission	Source	Air Contaminant	Emissio	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		HF	1.91	8.36
10H1	Fluid Bed Reactor 81E Potline 8	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \\ HF \end{array}$	2.94 2.94 0.11 131.50 17.64 1.84 0.07 0.17	12.85 12.85 0.49 575.99 77.28 8.05 0.32 0.76
10H2	Fluid Bed Reactor 82E Potline 8	PM PM ₁₀ NO _x CO SO ₂ COS PF HF	2.94 2.94 0.11 131.50 17.64 1.84 0.07 0.17	12.85 12.85 0.49 575.99 77.28 8.05 0.32 0.76
10H3	Fluid Bed Reactor 83E Potline 8	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \\ HF \end{array}$	2.94 2.94 0.11 131.50 17.64 1.84 0.07 0.17	12.85 12.85 0.49 575.99 77.28 8.05 0.32 0.76
10H4	Fluid Bed Reactor 84E Potline 8	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ COS \\ PF \\ HF \end{array}$	2.94 2.94 0.11 131.50 17.64 1.84 0.07 0.17	12.85 12.85 0.49 575.99 77.28 8.05 0.32 0.76

Emission	Source	Air Contaminant	Emissio	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
10H5	Fluid Bed Reactor 85E	PM	2.94	12.85
	Potline 8	PM_{10}	2.94	12.85
		NO_x	0.11	0.49
		CO	131.50	575.99
		SO_2	17.64	77.28
		COS	1.84	8.05
		PF	0.07	0.32
		HF	0.17	0.76
10H6	Fluid Bed Reactor 86E	PM	2.94	12.85
	Potline 8	PM_{10}	2.94	12.85
		NO_x	0.11	0.49
		CO	131.50	575.99
		SO_2	17.64	77.28
	ORAFT	COS	1.84	8.05
	lacksquare	PF	0.07	0.32
		HF	0.17	0.76
10H7	Fluid Bed Reactor 81W	PM	2.94	12.85
	Potline 8	PM_{10}	2.94	12.85
		NO_x	0.11	0.49
		CO	131.50	575.99
		SO_2	17.64	77.28
		COS	1.84	8.05
		PF	0.07	0.32
		HF	0.17	0.76
10H8	Fluid Bed Reactor 83W	PM	2.94	12.85
	Potline 8	PM_{10}	2.94	12.85
		NO_x	0.11	0.49
		CO	131.50	575.99
		SO_2	17.64	77.28
		COS	1.84	8.05
		PF	0.07	0.32
		HF	0.17	0.76

Emission	Source	Air Contaminant	Emissio	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
10H9	Fluid Bed Reactor 83W	PM	2.94	12.85
	Potline 8	PM_{10}	2.94	12.85
		NO _x	0.11	0.49 EZE 00
		CO SO₂	131.50 17.64	575.99 77.28
		COS	1.84	8.05
		PF	0.07	0.32
		HF	0.07	0.32
		ПГ	0.17	0.70
10H10	Fluid Bed Reactor 84W	PM	2.94	12.85
	Potline 8	PM_{10}	2.94	12.85
		NO_x	0.11	0.49
		CO	131.50	575.99
		SO_2	17.64	77.28
		COS	1.84	8.05
	Q PX	PF	0.07	0.32
	ORAFT	HF	0.17	0.76
10H11	Fluid Bed Reactor 85W	PM	2.94	12.85
	Potline 8	PM_{10}	2.94	12.85
		NO _x	0.11	0.49
		CO	131.50	575.99
		SO_2	17.64	77.28
		COS	1.84	8.05
		PF	0.07	0.32
		HF	0.17	0.76
10H12	Fluid Bed Reactor 86W	PM	2.94	12.85
201122	Potline 8	PM_{10}	2.94	12.85
		NO _x	0.11	0.49
		CO	131.50	575.99
		SO_2	17.64	77.28
		COS	1.84	8.05
		PF	0.07	0.32
		HF	0.17	0.76
10H13	Reacted Aluminum Baghouse	PM/PM ₁₀	0.07	0.32
	Potline 8	PF	< 0.01	0.08

Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
10H14	Reacted Aluminum Baghouse	PM/PM ₁₀	0.07	0.32
10.11	Potline 8	PF	<0.01	0.08
	1 dune d	1 1	\0.01	0.00
F10H-1	Roof Monitor	PM	9.17	40.16
	Potline 8	PM_{10}	5.32	23.29
		NO_x	0.01	0.02
		CO	6.01	26.31
		SO_2	0.81	3.53
		COS	0.08	0.37
		PF	2.17	9.51
		HF	1.40	6.14
			2.10	0.1
F10H-2	Roof Monitor	PM	9.17	40.16
	Potline 8		5.32	23.29
	×	NO _x	0.01	0.02
	Potline 8	CO	6.01	26.31
	\Diamond	SO ₂	0.81	3.53
		COS	0.08	0.37
		PF	2.17	9.51
		HF	1.40	6.14
F10H-3	Roof Monitor	PM	9.17	40.16
	Potline 8	PM_{10}	5.32	23.29
		NO_x	0.01	0.02
		CO	6.01	26.31
		SO_2	0.81	3.53
		COS	0.08	0.37
		PF	2.17	9.51
		HF	1.40	6.14
F10H-4	Roof Monitor	PM	9.17	40.16
1 1011 7	Potline 8	PM ₁₀	5.32	23.29
	1 Junio J	NO _x	0.01	0.02
		CO	6.01	26.31
		CO	0.01	ZU.31

Emission	Source	Air Contaminant	Emissio	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		SO ₂ COS PF HF	0.81 0.08 2.17 1.40	3.53 0.37 9.51 6.14
	Potline - 1 each (5)	F_2	-	96.39
	Potline - 2 each (5)	F_2	-	186.35
	Potline - 3 each (5)	F_2	-	242.71
	Potline - 4 each (5)	F_2	-	294.56
	Potline - 5 each (5)	F ₂	-	355.13
	Potline - 6 each (5)	F ₂	-	400.27
11A	Lime Storage Baghouse	PM/PM ₁₀	0.14	0.16
13B	Furnace 5	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ VOC \\ F_{2} \\ CI_{2} \\ HCI \end{array}$	5.67 2.84 3.44 1.35 0.01 0.09 3.35 1.10 3.08	24.84 12.42 7.27 5.92 0.04 0.39 1.75 0.49 13.49
13C	Furnace 6	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ VOC \\ F_{2} \\ CI_{2} \\ HCI \end{array}$	5.67 2.84 3.44 1.35 0.96 0.09 3.35 1.10 3.08	24.84 12.42 7.27 5.92 0.04 0.39 1.75 0.49 13.49
13D	Holding Furnace 7	PM	5.67	24.84

Emission	Source	Air Contaminant	Emission	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		PM_{10}	2.84	12.42
		NO _x	1.68	3.55
		CO	0.66	2.89
		SO ₂	0.01	0.03
		VOC	0.04	0.19
		F_2 Cl_2	3.35 1.10	1.75 0.49
		HCI	3.08	13.49
		ПСІ	3.08	13.49
V13J	Preheat Oven 1	PM/PM ₁₀	0.29	1.26
		NO_x	8.08	17.07
		CO	3.17	13.89
		SO_2	0.02	0.10
	,	VOC	0.21	0.91
	Preheat Oven 2	•		
V13K	Preheat Oven 2	PM/PM ₁₀	0.29	1.26
	Ox		8.08	17.07
	•	CO	3.17	13.89
		SO_2	0.02	0.10
		VOC	0.21	0.91
13IP1	Furnace 1 Stack	PM	0.10	0.43
		PM_{10}	0.10	0.43
		NO _x	2.75	5.80
		CO	1.08	4.72
		SO_2	0.01	0.03
		VOC	0.07	0.31
		F_2	3.35	1.75
13IP2	Furnace 2 Stack	PM	0.10	0.43
		PM_{10}	0.10	0.43
		NO_x	2.75	5.80
		CO	1.08	4.72
		SO_2	0.01	0.03
		VOC	0.07	0.31
		F ₂	3.35	1.75
2A	Coke Milling, Screening	PM	1.90	8.28
	and Transfer	PM ₁₀	1.90	8.28
2C	Coke Milling, Screening	PM	1.02	4.46

Emission	Source	Air Contaminant	Emissio	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
	and Transfer	PM_{10}	1.02	4.46
		F_2	<0.01	<0.01
2E	Coke Milling, Screening	PM	0.12	0.56
	and Transfer	PM ₁₀	0.12	0.56
2F	Coke Milling, Screening	РМ	0.60	2.55
	and Transfer	PM ₁₀	0.60	2.55
2G	Ball Mill CC30	РМ	0.38	1.67
		PM_{10}	0.38	1.67
2H	Ball Mill CC60	PM	0.07	0.29
	Į.	PM ₁₀	0.07	0.29
9C	Belt Conveyor 42A Baghouse	PM	0.06	0.26
	,	PM_{10}	0.06	0.26
		PF	<0.01	<0.01
9D	Transfer Point 42B Baghouse	PM/PM ₁₀	0.12	0.52
		PF	<0.01	0.01
9E	Transfer Point 42C Baghouse	PM/PM ₁₀	0.12	0.52
		PF	<0.01	0.01
9G2	Storage Tank 19H Baghouse	PM/PM ₁₀	0.05	0.21
		PF	<0.01	0.01
9G3	Storage Tank 19W Baghouse	PM/PM ₁₀	0.08	0.35
		PF	<0.01	0.01
9G3A	Day Tank 19X Baghouse	PM/PM ₁₀	0.08	0.36
		PF	<0.01	0.01
9G4-1	Reacted Alumina Tank 21R	PM/PM ₁₀	0.02	0.07
	Baghouse	PF	<0.01	<0.01
9G4-2	Reacted alumina Tank 21R	PM/PM ₁₀	0.04	0.18
	Baghouse	PF	<0.01	<0.01

Emission	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
9G5	Storage Tank 129E Baghouse	PM/PM ₁₀	0.04	0.19
		PF	<0.01	<0.01
9G6	Day Tank 129G Baghouse	PM/PM ₁₀	0.03	0.15
900	Day Talik 1290 Bagilouse	PF	< 0.03	<0.01
			0.02	0.01
9G7-1	Alumina Tank 129M Baghouse	PM/PM ₁₀	0.04	0.19
		PF	<0.01	<0.01
9G7-2	Alumina Tank 129R Baghouse	PM/PM ₁₀	0.04	0.16
901-2	Alumina Tank 129R Baynouse	PF	< 0.04	<0.10
			10.01	10.01
9G8	Alumina Tank 129W	PM/PM ₁₀	0.06	0.26
	Baghouse Baghouse	` PF	< 0.01	0.01
000	Day Tark 1997 Back a	D14/D14	0.04	0.10
9G9	Day Tank 129X Bagho	PM/PM ₁₀ PF	0.04 <0.01	0.19 0.01
		FF	\0.01	0.01
9G10	Storage Tank 133E Baghouse	PM/PM ₁₀	0.04	0.15
		PF	< 0.01	<0.01
0011	D T 1000 D	D14/D14	0.04	0.10
9G11	Day Tank 133G Baghouse	PM/PM ₁₀	0.04	0.19
		PF	<0.01	0.01
9G12-1	Storage Tank 133M Baghouse	PM/PM ₁₀	0.04	0.16
		PF	< 0.01	<0.01
9G12-2	Storage Tank 133M Baghouse	PM/PM ₁₀	0.04	0.18
		PF	<0.01	<0.01
9G13	Storage Tank 133W Baghouse	PM/PM ₁₀	0.04	0.17
		PF	< 0.01	0.01
9G14	Storage Tank 133X Baghouse	PM/PM ₁₀	0.03	0.15
		PF	<0.01	0.01
9G15-1	Reacted Alumina Tank 133R	PM/PM ₁₀	0.04	0.17
00101	Baghouse	PF	<0.01	0.01
	•			

Emission	Source	Air Contaminant	Emission	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
9G15-2	Reacted Alumina Tank 133R Baghouse	PM/PM ₁₀ PF	0.04 <0.01	0.17 0.01	
9G16-1	Reacted Alumina Tank 129R Baghouse	PM/PM ₁₀ PF	0.04 <0.01	0.17 0.01	
9G16-2	Reacted Alumina Tank 129R Baghouse	PM/PM ₁₀ PF	0.04 <0.01	0.17 0.01	
9G17	Air Slide 9T21 Baghouse	PM/PM ₁₀ PF	0.21 <0.01	0.54 0.02	
9G18	Elevator Tower Line 5 Baghouse	PM/PM ₁₀ PF	0.05 <0.01	0.22 0.01	
9G19	41 Lower Conveyor Belt Vent (4)	PM/PM ₁₀ PF	0.39 0.01	1.70 0.04	
9G20	41 Upper Conveyor Belt Vent (4)	PM/PM ₁₀ PF	0.08 <0.01	0.34 0.01	
9G25	Potline 1 Ore Fill Station Baghouse	PM/PM ₁₀	0.19	0.81	
9G26	Potline 2 Ore Fill Station Baghouse	PM/PM ₁₀	0.19	0.81	
9G27	Potline 3 Ore Fill Station Baghouse	PM/PM ₁₀	0.19	0.81	
9G28	Potline 4 Ore Fill Station Baghouse	PM/PM ₁₀	0.19	0.81	
90REVENT	Ore Tank Vents (4)	PM PM ₁₀	0.01 <0.01	0.01 <0.01	
4A	Steam Boiler No. 1	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \end{array}$	0.29 0.29 8.08 3.17 0.02	1.26 1.26 17.07 13.89 0.10	

Emission	Source	Air Contaminant	Emissio	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		VOC	0.21	0.91
4B	Steam Boiler No. 2	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ VOC \end{array}$	0.29 0.29 8.08 3.17 0.02 0.21	1.26 1.26 17.07 13.89 0.10 0.91
7D	Induction Furnace Baghouse	PM/PM ₁₀	1.33	5.81
7F	Anode Cleaning - General Baghouse	PM/PM ₁₀	0.75	3.29
7G	Anode Cleaning - General Baghouse	PM/PM ₁₀	0.75	3.29
8D	Heat, Steam, and PowerBoiler		0.02 0.02 0.63 0.25 <0.01 0.02	0.10 0.10 1.33 1.08 0.01 0.07
8E	Heat, Steam, and Power Boiler		0.02 0.03 0.03 0.94 0.37 <0.01 0.02	0.07 0.15 0.15 2.00 1.62 0.02 0.11
F131	Crucible Preheater	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ VOC \end{array}$	0.03 0.03 0.63 0.25 <0.01 0.02	0.10 0.10 1.33 1.09 0.01 0.08
F15	Skim Room Storage Baghouse	PM/PM ₁₀	0.02	0.10
F1A	Coke and Pitch Unloading	PM PM ₁₀	0.10 0.01	0.42 0.02

F1B	Pitch Unloading	PM PM ₁₀	0.03 0.01	0.14 0.05
F9A	Ore Unloading Station	PM PM ₁₀	0.01 <0.01	0.01 <0.01
V8C1	Potling Mixing Cathode Material Mixing	PM PM ₁₀	0.01 0.01	<0.01 <0.01
V8C2	Potling Mixing Cathode Material Mixing	PM PM ₁₀	0.01 0.01	<0.01 <0.01
FBLDG80	Lab Emissions	IPA C ₆ H ₅ CH ₃ CH ₃ COCH ₃	- - -	0.30 0.06 0.33
13FUG1	Ingot Plant Fugitives (4) Ingot Plant Roof Vents	$\begin{array}{c} PM \\ PM_{10} \\ NO_{x} \\ CO \\ SO_{2} \\ VOC \\ Cl_{2} \\ HCI \end{array}$	0.06 0.06 0.72 0.61 0.01 0.04 1.80 2.76	0.24 0.24 3.17 2.66 0.02 0.17 0.25 0.07
F11C	Lime Unloading	PM PM ₁₀	0.01 0.01	<0.01 <0.01
9CONV41	Conveyor Belt 41 (4)	PM PM ₁₀	0.17 0.08	0.36 0.17
9CONV42	Conveyor Belt 42 (4)	PM PM ₁₀	0.23 0.11	0.49 0.24

⁽¹⁾ Emission point identification - either specific equipment designation or emission point number from a plot plan.

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀.

PM₁₀ - 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.

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter.

⁽²⁾ Specific point source names. For fugitive sources, use an area name or fugitive source name.

⁽³⁾ VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1

CO - carbon monoxide HCl - hydrogen chloride PF - particulate fluoride

HF - hydrogen fluoride - gaseous fluoride

 F_2 - total fluorides IPA - isopropanol $C_6H_5CH_3$ - toluene CH_3COCH_3 - acetone

COS - carbonyl sulfide

Cl₂ - chlorine

(4) Fugitive emissions are an estimate only.

(5) Based on the following MACT standards:

1 potline: 3.00 pounds (lbs) Total Fluoride (F2)/ton of aluminum produced

2 potlines: 2.90 lbs F_2 /ton aluminum produced 3 potlines: 2.80 lbs F_2 /ton aluminum produced 4 potlines: 2.70 lbs F_2 /ton aluminum produced 5 potlines: 2.70 lbs F_2 /ton aluminum produced 6 potlines: 2.60 lbs F_2 /ton aluminum produced



Dated __