EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
10C1	Scrubber 10S7N Potline 3	PM	3.84	16.82
		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
10C2	Scrubber 10S7S Potline 3	PM	3.84	16.82
		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
10C3	Scrubber 10S8N Potline 3	PM	3.84	16.82
		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 Potline 3	PM	3.84	16.82
		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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	Emission Rates TPY
10C5	Potline Potline 3	PM	3.84	16.82
		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 Potline 3	PM	3.84	16.82
		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
10C7	Scrubber 10S7NW Potline 3	PM	3.84	16.82
		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 Potline 3	PM	3.84	16.82
		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 Potline 3	PM	6.40	28.03
		PM_{10}	3.71	16.26
		NO_x	0.01	0.03
		CO	5.59	24.49
		SO_2	0.75	3.29

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
		COS	0.08	0.34
		PF	2.06	9.02
		HF	2.28	10.00
F10C-2	Roof Monitor Potline 3	PM	6.40	28.03
		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	2.06	9.02
		HF	2.28	10.00
F10C-3	Roof Monitor Potline 3	PM	6.04	28.03
		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	2.06	9.02
		HF	2.28	10.00
F10C-4	Roof Monitor Potline 3	PM	6.40	28.03
		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	2.06	9.02
		HF	2.28	10.00
10D1	Scrubber 10S10N Potline 4	PM	3.66	16.01
		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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
		HF	1.01	4.44
10D2	Scrubber 10S10S Potline 4	PM	3.66	16.01
		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
10D3	Scrubber 10S11N Potline 4	PM	3.66	16.01
		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
10D4	Scrubber 10S11S Potline 4	PM	3.66	16.01
		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 Potline 4	PM	3.66	16.01
		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 SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	Emission Rates TPY
10D6	Scrubber 12S Potline 4	PM	3.66	16.01
		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
10D-7	Scrubber 10S1L Potline 4	PM	3.66	16.01
		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
10D-8	Scrubber 10S12 Potline 4	PM	3.66	16.01
		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
10D-9	Scrubber 10S12 Potline 4	PM	3.66	16.01
		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
F10D-1	Roof Monitor Potline 4	PM	6.40	28.03
		PM_{10}	3.71	16.26

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
		NO_x	0.01	0.02
		CO	7.19	31.48
		SO_2	0.75	3.29
		COS	0.08	0.34
		PF	1.07	4.68
		HF	1.27	5.57
F10D-2	Roof Monitor Potline 4	PM	6.40	28.03
		PM_{10}	3.71	16.26
		NO_x	0.01	0.02
		CO	7.19	31.48
		SO_2	0.75	3.29
		COS	0.08	0.34
		PF	1.07	4.68
		HF	1.27	5.57
F10D-3	Roof Monitor Potline 4	PM	6.40	28.03
		PM_{10}	3.71	16.26
		NO_x	0.01	0.02
		CO	7.19	31.48
		SO_2	0.75	3.29
		COS	0.08	0.34
		PF	1.07	4.68
		HF	1.27	5.57
F10D-4	Roof Monitor Potline 4	PM	6.40	28.03
		PM_{10}	3.71	16.26
		NO_x	0.01	0.02
		CO	7.19	31.48
		SO_2	0.75	3.29
		COS	0.08	0.34
		PF	1.07	4.68
		HF	1.27	5.57
10E1	Fluid Bed Reactor - 51N Potline 5	PM	2.81	12.29
		PM_{10}	2.81	12.29
		NO_x	0.10	0.45
		CO	121.75	533.25

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
		SO_2	16.34	71.55
		COS	1.70	7.45
		PF	0.18	0.77
		HF	0.08	0.36
10E2	Fluid Bed Reactor 52N Potline 5	PM	2.81	12.29
		PM_{10}	2.81	12.29
		NO_x	0.10	0.45
		CO	121.75	533.25
		SO_2	16.34	71.55
		COS	1.70	7.45
		PF	0.18	0.77
		HF	0.08	0.36
10E3	Fluid Bed Reactor 53N Potline 5	PM	2.81	12.29
		PM_{10}	2.81	12.29
		NO_x	0.10	0.45
		CO	121.75	533.25
		SO_2	16.34	71.55
		COS	1.70	7.45
		PF	0.18	0.77
		HF	0.08	0.36
10E4	Fluid Bed Reactor 54N Potline 5	PM	2.81	12.29
		PM_{10}	2.81	12.29
		NO_x	0.10	0.45
		CO	121.75	533.25
		SO_2	16.34	71.55
		COS	1.70	7.45
		PF	0.18	0.77
		HF	0.08	0.36
10E5	Fluid Bed Reactor 55S Potline 5	PM	2.81	12.29
		PM_{10}	2.81	12.29
		NO_x	0.10	0.45
		CO	121.75	533.25
		SO_2	16.34	71.55
		COS	1.70	7.45

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
		PF	0.18	0.77
		HF	0.08	0.36
10E6	Fluid Bed Reactor 56S Potline 5	PM	2.81	12.29
		PM_{10}	2.81	12.29
		NO_x	0.10	0.45
		CO	121.75	533.25
		SO_2	16.34	71.55
		COS	1.70	7.45
		PF	0.18	0.77
		HF	0.08	0.36
10E7	Fluid Bed Reactor 57S Potline 5	PM	2.81	12.29
		PM_{10}	2.81	12.29
		NO_x	0.10	0.45
		CO	121.75	533.25
		SO_2	16.34	71.55
		COS	1.70	7.45
		PF	0.18	0.77
		HF	0.08	0.36
10E8	Fluid Bed Reactor 58S Potline 5	PM	2.81	12.29
		PM_{10}	2.81	12.29
		NO_x	0.10	0.45
		CO	121.75	533.25
		SO_2	16.34	71.55
		COS	1.70	7.45
		PF	0.18	0.77
		HF	0.08	0.36
10E9	Fluid Bed Reactor 59S Potline 5	PM	2.81	12.29
		PM_{10}	2.81	12.29
		NO_x	0.10	0.45
		CO	121.75	533.25
		SO_2	16.34	71.55
		COS	1.70	7.45
		PF	0.18	0.77
		HF	0.08	0.36

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
10E10	Potline Potline 5	PM	0.04	0.16
		PM_{10}	0.04	0.16
		PF	<0.01	0.01
10E11	Potline Potline 5	PM	0.04	0.16
		PM_{10}	0.04	0.16
		PF	<0.01	0.01
F10E-1	Roof Monitor Potline 5	PM	6.40	28.03
		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-2	Roof Monitor Potline 5	PM	6.40	28.03
		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 Potline 5	PM	6.40	28.03
		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 SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
	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
		HF	0.93	4.06
10F2	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
		HF	0.93	4.06
10F3	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
		HF	0.93	4.06
10F4	Potline	PM	2.30	10.09
	Potline 6	PM_{10}	1.64	7.16
		NO_x	0.09	0.40

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
		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
10F5	Potline Potline 6	PM	2.30	10.09
		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
		HF	0.93	4.06
10F6	Potline Potline 6	PM	2.30	10.09
		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
		HF	0.93	4.06
10F7	Potline Potline 6	PM	2.30	10.09
		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
		HF	0.93	4.06
10F8	Potline Potline 6	PM	2.30	10.09
		PM_{10}	1.64	7.16
		NO_x	0.09	0.40
		CO	138.00	604.45
		SO_2	7.34	32.17

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
		COS	0.77	3.35
		PF	0.86	3.76
		HF	0.93	4.06
10F9	Potline Potline 6	PM	2.30	10.09
		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
		HF	0.93	4.06
10F10	Potline Potline 6	PM	2.30	10.09
		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
		HF	0.93	4.06
10F11	Potline Potline 6	PM	2.30	10.09
		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
		HF	0.93	4.06
10F12	Potline Potline 6	PM	2.30	10.09
		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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
		HF	0.93	4.06
F10F-1	Roof Monitor Potline 6	PM	6.40	28.03
		PM_{10}	3.71	16.26
		NO_x	0.01	0.04
		CO	14.38	62.96
		SO_2	1.50	6.57
		COS	0.16	0.68
		PF	1.60	7.03
		HF	2.49	10.92
F10F-2	Roof Monitor Potline 6	PM	6.40	28.03
		PM_{10}	3.71	16.26
		NO_x	0.01	0.04
		CO	14.38	62.96
		SO_2	1.50	6.57
		COS	0.16	0.68
		PF	1.60	7.03
		HF	2.49	10.92
F10F-3	Roof Monitor Potline 6	PM	6.40	28.03
		PM_{10}	3.71	16.26
		NO_x	0.01	0.04
		CO	14.38	62.96
		SO_2	1.50	6.57
		COS	0.16	0.68
		PF	1.60	7.03
		HF	2.49	10.92
F10F-4	Roof Monitor Potline 6	PM	6.40	28.03
		PM_{10}	3.71	16.26
		NO_x	0.01	0.04
		CO	14.38	62.96
		SO_2	1.50	6.57
		COS	0.16	0.68
		PF	1.60	7.03
		HF	2.49	10.92

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	Emission Rates TPY
10G1	Fluid Bed Reactor 71E Potline 7	PM	3.15	13.79
		PM_{10}	3.15	13.79
		NO_x	0.11	0.49
		CO	131.50	575.99
		SO_2	17.66	77.28
		COS	1.84	8.05
		PF	0.06	0.26
		HF	0.08	0.35
10G2	Fluid Bed Reactor 72E Potline 7	PM	3.15	13.79
		PM_{10}	3.15	13.79
		NO_x	0.11	0.49
		CO	131.50	575.99
		SO_2	17.66	77.28
		COS	1.84	8.05
		PF	0.06	0.26
		HF	0.08	0.35
10G3	Fluid Bed Reactor 73E Potline 7	PM	3.15	13.79
		PM_{10}	3.15	13.79
		NO_x	0.11	0.49
		CO	131.50	575.99
		SO_2	17.66	77.28
		COS	1.84	8.05
		PF	0.06	0.26
		HF	0.08	0.35
10G4	Fluid Bed Reactor 74E Potline 7	PM	3.15	13.79
		PM_{10}	3.15	13.79
		NO_x	0.11	0.49
		CO	131.50	575.99
		SO_2	17.66	77.28
		COS	1.84	8.05
		PF	0.06	0.26
		HF	0.08	0.35
10G5	Fluid Bed Reactor 75E Potline 7	PM	3.15	13.79
		PM_{10}	3.15	13.79

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
		NO_x	0.11	0.49
		CO	131.50	575.99
		SO_2	17.66	77.28
		COS	1.84	8.05
		PF	0.06	0.26
		HF	0.08	0.35
10G6	Fluid Bed Reactor 76E Potline 7	PM	3.15	13.79
		PM_{10}	3.15	13.79
		NO_x	0.11	0.49
		CO	131.50	575.99
		SO_2	17.66	77.28
		COS	1.84	8.05
		PF	0.06	0.26
		HF	0.08	0.35
10G7	Fluid Bed Reactor 71W Potline 7	PM	3.15	13.79
		PM_{10}	3.15	13.79
		NO_x	0.11	0.49
		CO	131.50	575.99
		SO_2	17.66	77.28
		COS	1.84	8.05
		PF	0.06	0.26
		HF	0.08	0.35
10G8	Fluid Bed Reactor 72W Potline 7	PM	3.15	13.79
		PM_{10}	3.15	13.79
		NO_x	0.11	0.49
		CO	131.50	575.99
		SO_2	17.66	77.28
		COS	1.84	8.05
		PF	0.06	0.26
		HF	0.08	0.35
10G9	Fluid Bed Reactor 73W Potline 7	PM	3.15	13.79
		PM_{10}	3.15	13.79
		NO_x	0.11	0.49
		CO	131.50	575.99

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
		SO_2	17.66	77.28
		COS	1.84	8.05
		PF	0.06	0.26
		HF	0.08	0.35
10G10	Fluid Bed Reactor 74W Potline 7	PM	3.15	13.79
		PM_{10}	3.15	13.79
		NO_x	0.11	0.49
		CO	131.50	575.99
		SO_2	17.66	77.28
		COS	1.84	8.05
		PF	0.06	0.26
		HF	0.08	0.35
10G11	Fluid Bed Reactor 75W Potline 7	PM	3.15	13.79
		PM_{10}	3.15	13.79
		NO_x	0.11	0.49
		CO	131.50	575.99
		SO_2	17.66	77.28
		COS	1.84	8.05
		PF	0.06	0.26
		HF	0.08	0.35
10G12	Fluid Bed Reactor 76W Potline 7	PM	3.15	13.79
		PM_{10}	3.15	13.79
		NO_x	0.11	0.49
		CO	131.50	575.99
		SO_2	17.66	77.28
		COS	1.84	8.05
		PF	0.06	0.26
		HF	0.08	0.35
10G13	Reacted Aluminum Baghouse	PM/PM_{10}	0.03	0.13
		PF	<0.01	<0.01
10G14	Reacted Aluminum Baghouse	PM/PM_{10}	0.03	0.13
		PF	<0.01	<0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
F10G-1	Roof Monitor Potline 7	PM_1	9.17	40.16
		PM_{10}	5.32	23.29
		NO_x	0.01	0.03
		CO	6.01	26.31
		SO_2	0.81	3.53
		COS	0.08	0.37
		PF	3.04	13.33
		HF	1.91	8.36
F10G-2	Roof Monitor Potline 7	PM_1	9.17	40.16
		PM_{10}	5.32	23.29
		NO_x	0.01	0.03
		CO	6.01	26.31
		SO_2	0.81	3.53
		COS	0.08	0.37
		PF	3.04	13.33
		HF	1.91	8.36
F10G-3	Roof Monitor Potline 7	PM_1	9.17	40.16
		PM_{10}	5.32	23.29
		NO_x	0.01	0.03
		CO	6.01	26.31
		SO_2	0.81	3.53
		COS	0.08	0.37
		PF	3.04	13.33
		HF	1.91	8.36
F10G-4	Roof Monitor Potline 7	PM_1	9.17	40.16
		PM_{10}	5.32	23.29
		NO_x	0.01	0.03
		CO	6.01	26.31
		SO_2	0.81	3.53
		COS	0.08	0.37
		PF	3.04	13.33

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
		HF	1.91	8.36
10H1	Fluid Bed Reactor 81E Potline 8	PM	2.94	12.85
		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
10H2	Fluid Bed Reactor 82E Potline 8	PM	2.94	12.85
		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
10H3	Fluid Bed Reactor 83E Potline 8	PM	2.94	12.85
		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
10H4	Fluid Bed Reactor 84E Potline 8	PM	2.94	12.85
		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 SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	Emission Rates TPY
10H5	Fluid Bed Reactor 85E Potline 8	PM	2.94	12.85
		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 Potline 8	PM	2.94	12.85
		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
10H7	Fluid Bed Reactor 81W Potline 8	PM	2.94	12.85
		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 Potline 8	PM	2.94	12.85
		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 SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
10H9	Fluid Bed Reactor 83W Potline 8	PM	2.94	12.85
		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
10H10	Fluid Bed Reactor 84W Potline 8	PM	2.94	12.85
		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
10H11	Fluid Bed Reactor 85W Potline 8	PM	2.94	12.85
		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 Potline 8	PM	2.94	12.85
		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 Potline 8	PM/PM_{10}	0.07	0.32
		PF	<0.01	0.08

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	Emission Rates TPY
10H14	Reacted Aluminum Baghouse Potline 8	PM/PM_{10}	0.07	0.32
		PF	<0.01	0.08
F10H-1	Roof Monitor Potline 8	PM	9.17	40.16
		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-2	Roof Monitor Potline 8	PM	9.17	40.16
		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-3	Roof Monitor Potline 8	PM	9.17	40.16
		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 Potline 8	PM	9.17	40.16
		PM_{10}	5.32	23.29
		NO_x	0.01	0.02
		CO	6.01	26.31

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
		SO_2	0.81	3.53
		COS	0.08	0.37
		PF	2.17	9.51
		HF	1.40	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	PM	5.67	24.84
		PM_{10}	2.84	12.42
		NO_x	3.44	7.27
		CO	1.35	5.92
		SO_2	0.01	0.04
		VOC	0.09	0.39
		F_2	3.35	1.75
		Cl_2	1.10	0.49
		HCl	3.08	13.49
13C	Furnace 6	PM	5.67	24.84
		PM_{10}	2.84	12.42
		NO_x	3.44	7.27
		CO	1.35	5.92
		SO_2	0.96	0.04
		VOC	0.09	0.39
		F_2	3.35	1.75
		Cl_2	1.10	0.49
		HCl	3.08	13.49
13D	Holding Furnace 7	PM	5.67	24.84

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates 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	3.35	1.75
		Cl_2	1.10	0.49
		HCl	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
V13K	Preheat Oven 2	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
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 and Transfer	PM	1.90	8.28
		PM_{10}	1.90	8.28
2C	Coke Milling, Screening	PM	1.02	4.46

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
	and Transfer	PM_{10}	1.02	4.46
		F_2	<0.01	<0.01
2E	Coke Milling, Screening and Transfer	PM	0.12	0.56
		PM_{10}	0.12	0.56
2F	Coke Milling, Screening and Transfer	PM	0.60	2.55
		PM_{10}	0.60	2.55
2G	Ball Mill CC30	PM	0.38	1.67
		PM_{10}	0.38	1.67
2H	Ball Mill CC60	PM	0.07	0.29
		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 Baghouse	PM/PM_{10}	0.02	0.07
		PF	<0.01	<0.01
9G4-2	Reacted alumina Tank 21R Baghouse	PM/PM_{10}	0.04	0.18
		PF	<0.01	<0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	Emission Rates 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
		PF	<0.01	<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
		PF	<0.01	<0.01
9G8	Alumina Tank 129W Baghouse	PM/PM_{10}	0.06	0.26
		PF	<0.01	0.01
9G9	Day Tank 129X Baghouse	PM/PM_{10}	0.04	0.19
		PF	<0.01	0.01
9G10	Storage Tank 133E Baghouse	PM/PM_{10}	0.04	0.15
		PF	<0.01	<0.01
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 Baghouse	PM/PM_{10}	0.04	0.17
		PF	<0.01	0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	Emission Rates TPY
9G15-2	Reacted Alumina Tank 133R Baghouse	PM/PM_{10}	0.04	0.17
		PF	<0.01	0.01
9G16-1	Reacted Alumina Tank 129R Baghouse	PM/PM_{10}	0.04	0.17
		PF	<0.01	0.01
9G16-2	Reacted Alumina Tank 129R Baghouse	PM/PM_{10}	0.04	0.17
		PF	<0.01	0.01
9G17	Air Slide 9T21 Baghouse	PM/PM_{10}	0.21	0.54
		PF	<0.01	0.02
9G18	Elevator Tower Line 5 Baghouse	PM/PM_{10}	0.05	0.22
		PF	<0.01	0.01
9G19	41 Lower Conveyor Belt Vent (4)	PM/PM_{10}	0.39	1.70
		PF	0.01	0.04
9G20	41 Upper Conveyor Belt Vent (4)	PM/PM_{10}	0.08	0.34
		PF	<0.01	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	0.01	0.01
		PM_{10}	<0.01	<0.01
4A	Steam Boiler No. 1	PM	0.29	1.26
		PM_{10}	0.29	1.26
		NO_x	8.08	17.07
		CO	3.17	13.89
		SO_2	0.02	0.10

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
		VOC	0.21	0.91
4B	Steam Boiler No. 2	PM	0.29	1.26
		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
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 Power Boiler	PM	0.02	0.10
		PM_{10}	0.02	0.10
		NO_x	0.63	1.33
		CO	0.25	1.08
		SO_2	<0.01	0.01
		VOC	0.02	0.07
8E	Heat, Steam, and Power Boiler	PM	0.03	0.15
		PM_{10}	0.03	0.15
		NO_x	0.94	2.00
		CO	0.37	1.62
		SO_2	<0.01	0.02
		VOC	0.02	0.11
F131	Crucible Preheater	PM	0.03	0.10
		PM_{10}	0.03	0.10
		NO_x	0.63	1.33
		CO	0.25	1.09
		SO_2	<0.01	0.01
		VOC	0.02	0.08
F15	Skim Room Storage Baghouse	PM/PM_{10}	0.02	0.10
F1A	Coke and Pitch Unloading	PM	0.10	0.42
		PM_{10}	0.01	0.02

F1B	Pitch Unloading	PM	0.03	0.14
		PM_{10}	0.01	0.05
F9A	Ore Unloading Station	PM	0.01	0.01
		PM_{10}	<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 $C_6H_5CH_3$ CH_3COCH_3	- - -	0.30 0.06 0.33
13FUG1	Ingot Plant Fugitives (4) Ingot Plant Roof Vents	PM PM_{10} NO_x CO SO_2 VOC Cl_2 HCl	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.
(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
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
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.
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter.

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
Cl_2 - chlorine

(4) Fugitive emissions are an estimate only.

(5) Based on the following MACT standards:

1 potline: 3.00 pounds (lbs) Total Fluoride (F_2)/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 _