Emission Sources - Maximum Allowable Emission Rates

Permit Number 56300

(2-7-12 Version)

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
10E1	Fluid Bed Reactor 51N Potline 5 (3 Stacks)	PM	3.78	16.56
		PM_{10}	3.78	16.56
		$PM_{2.5}$	2.46	10.78
		NOx	0.10	0.45
		CO	121.89	533.89
		SO_2	24.53	107.45
		COS	2.56	11.19
		PF	0.18	0.79
		HF	0.08	0.37
10E2	Fluid Bed Reactor 52N Potline 5 (3 Stacks)	PM	3.78	16.56
		PM_{10}	3.78	16.56
		$PM_{2.5}$	2.46	10.78
		NOx	0.10	0.45
		CO	121.89	533.89
		SO_2	24.53	107.45
		COS	2.56	11.19
		PF	0.18	0.79
		HF	0.08	0.37
10E3	Fluid Bed Reactor 53N Potline 5 (3 Stacks)	PM	3.78	16.56
		PM_{10}	3.78	16.56

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		$PM_{2.5}$	2.46	10.78
		NOx	0.10	0.45
		CO	121.89	533.89
		SO2	24.53	107.45
		COS	2.56	11.19
		PF	0.18	0.79
		HF	0.08	0.37
10E4	Fluid Bed Reactor 54N Potline 5 (3 Stacks)	PM	3.78	16.56
		PM_{10}	3.78	16.56
		$PM_{2.5}$	2.46	10.78
		NOx	0.10	0.45
		CO	121.89	533.89
		SO_2	24.53	107.45
		COS	2.56	11.19
		PF	0.18	0.79
		HF	0.08	0.37
10E5	Fluid Bed Reactor 55S Potline 5 (3 Stacks)	PM	3.78	16.56
		PM_{10}	3.78	16.56
		$PM_{2.5}$	2.46	10.78
		NOx	0.10	0.45
		CO	121.89	533.89
		SO_2	24.53	107.45
		COS	2.56	11.19
		PF	0.18	0.79
		HF	0.08	0.37

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10E6	Fluid Bed Reactor 56S Potline 5 (3 Stacks)	PM	3.78	16.56
		PM_{10}	3.78	16.56
		$PM_{2.5}$	2.46	10.78
		NOx	0.10	0.45
		CO	121.89	533.89
		SO_2	24.53	107.45
		COS	2.56	11.19
		PF	0.18	0.79
		HF	0.08	0.37
10E7	Fluid Bed Reactor 57S Potline 5 (3 Stacks)	PM	3.78	16.56
		PM_{10}	3.78	16.56
		$PM_{2.5}$	2.47	10.78
		NOx	0.10	0.45
		CO	121.89	533.89
		SO_2	24.53	107.45
		COS	2.56	11.19
		PF	0.18	0.79
		HF	0.08	0.37
10E8	Fluid Bed Reactor 58S Potline 5 (3 Stacks)	PM	3.78	16.56
		PM_{10}	3.78	16.56
		$PM_{2.5}$	2.46	10.78
		NOx	0.10	0.45
		CO	121.89	533.89
		SO_2	24.53	107.45
		COS	2.56	11.19

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		PF	0.18	0.79
		HF	0.08	0.37
10E9	Fluid Bed Reactor 59S Potline 5 (3 Stacks)	PM	3.78	16.56
		PM_{10}	3.78	16.56
		$PM_{2.5}$	2.46	`10.78
		NOx	0.10	0.45
		CO	121.89	533.89
		SO_2	24.53	107.45
		COS	2.56	11.19
		PF	0.18	0.79
		HF	0.08	0.37
F10E-1	Roof Monitor 5-1 Potline 5	PM	6.40	28.03
		PM_{10}	3.71	16.25
		$PM_{2.5}$	1.79	7.84
		NOx	0.01	0.03
		CO	5.60	24.52

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		SO_2	1.13	4.93
		COS	0.12	0.51
		PF	1.94	8.50
		HF	1.71	7.47
F10E-2	Roof Monitor 5-2 Potline 5	PM	6.40	28.03
		PM_{10}	3.71	16.25
		$PM_{2.5}$	1.79	7.84
		NOx	0.01	0.03
		CO	5.60	24.52
		SO_2	1.13	4.93
		COS	0.12	0.51
		PF	1.94	8.50
		HF	1.71	7.47
F10E-3	Roof Monitor 5-3 Potline 5	PM	6.40	28.03
		PM_{10}	3.71	16.25
		$PM_{2.5}$	1.79	7.84
		NOx	0.01	0.03
		CO	5.60	24.52
		SO_2	1.13	4.93
		COS	0.12	0.51
		PF	1.94	8.50
		HF	1.71	7.47
F10E-4	Roof Monitor 5-4 Potline 5	PM	6.40	28.03
		PM_{10}	3.71	16.25
		$PM_{2.5}$	1.79	7.84

Emission Sources - Maximum Allowable Emission Rates

		NOx	0.01	0.03
		CO	5.60	24.52
		SO_2	1.13	4.93
		COS	0.12	0.51
		PF	1.94	8.50
		HF	1.71	7.47
Potline 5 CAP (Includes 4 Roof monitors and 9 Scrubbers EPNs 10E1 thru 10E9 and F10E-1 thru F10E-4)		PM	59.62	261.12
		PM_{10}	48.86	214.00
		$PM_{2.5}$	29.31	128.40
		SO_2	225.30	986.81
		COS	23.47	102.79
		PF	9.38	41.08
		HF	7.58	33.20
		NO_x	0.95	4.15
		CO	1119.42	4903.08
10E10	Reacted Alumina Baghouse-Potline 5	PM	0.04	0.16
		PM_{10}	0.04	0.16
		$PM_{2.5}$	0.03	0.10
		PF	<0.01	0.01
10E11	Reacted Alumina Baghouse-Potline 5	PM/PM_{10}	0.04	0.16
		PM_{10}	0.04	0.16
		$PM_{2.5}$	0.03	0.10
		PF	<0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

10F1	Scrubber 10S13E Potline 6	PM	10.74	47.05
		PM_{10}	7.64	33.45
		$PM_{2.5}$	4.97	21.78
		NOx	0.09	0.40
		CO	138.17	605.18
		SO_2	16.22	71.05
		COS	2.03	8.88
		PF	1.37	6.00
		HF	0.98	4.29
10F2	Scrubber 10S13W Potline 6	PM	10.74	47.05
		PM_{10}	7.64	33.45
		$PM_{2.5}$	4.97	21.78
		NOx	0.09	0.40
		CO	138.17	605.18
		SO_2	16.22	71.05
		COS	2.03	8.88
		PF	1.37	6.00
		HF	0.98	4.29
10F3	Scrubber 10S14E Potline 6	PM	10.74	47.05
		PM_{10}	7.64	33.45
		$PM_{2.5}$	4.97	21.78
		NOx	0.09	0.40
		CO	138.17	605.18
		SO_2	16.22	71.05

Emission Sources - Maximum Allowable Emission Rates

		COS	2.03	8.88
		PF	1.37	6.00
		HF	0.98	4.29
10F4	Scrubber 10S14W Potline 6	PM	10.74	47.05
		PM_{10}	7.64	33.45
		$PM_{2.5}$	4.97	21.78
		NOx	0.09	0.40
		CO	138.17	605.18
		SO_2	16.22	71.05
		COS	2.03	8.88
		PF	1.37	6.00
		HF	0.98	4.29
10F5	Scrubber 10S15E Potline 6	PM	10.74	47.05
		PM_{10}	7.64	33.45
		$PM_{2.5}$	4.97	21.78
		NOx	0.09	0.40
		CO	138.17	605.18
		SO_2	16.22	71.05
		COS	2.03	8.88
		PF	1.37	6.00
		HF	0.98	4.29
10F6	Scrubber 10S15W Potline 6	PM	10.74	47.05
		PM_{10}	7.64	33.45
		$PM_{2.5}$	4.97	21.78
		NOx	0.09	0.40

Emission Sources - Maximum Allowable Emission Rates

		CO	138.17	605.18
		SO_2	16.22	71.05
		COS	2.03	8.88
		PF	1.37	6.00
		HF	0.98	4.29
10F7	Scrubber10S16E Potline 6	PM	10.74	47.05
		PM_{10}	7.64	33.45
		$PM_{2.5}$	4.97	21.78
		NOx	0.09	0.40
		CO	138.17	605.18
		SO_2	16.22	71.05
		COS	2.03	8.88
		PF	1.37	6.00
		HF	0.98	4.29
10F8	Scrubber10S16W Potline 6	PM	10.74	47.05
		PM_{10}	7.64	33.45
		$PM_{2.5}$	4.97	21.78
		NOx	0.09	0.40
		CO	138.17	605.18
		SO_2	16.22	71.05
		COS	2.03	8.88
		PF	1.37	6.00
		HF	0.98	4.29

Emission Sources - Maximum Allowable Emission Rates

10F9	Scrubber 10S17E Potline 6	PM	10.74	47.05
		PM_{10}	7.64	33.45
		$PM_{2.5}$	4.97	21.78
		NOx	0.09	0.40
		CO	138.17	605.18
		SO_2	16.22	71.05
		COS	2.03	8.88
		PF	1.37	6.00
		HF	0.98	4.29
10F10	Scrubber 10S17W Potline 6	PM	10.74	47.05
		PM_{10}	7.64	33.45
		$PM_{2.5}$	4.97	21.78
		NOx	0.09	0.40
		CO	138.17	605.18
		SO_2	16.22	71.05
		COS	2.03	8.88
		PF	1.37	6.00
		HF	0.98	4.29
10F11	Scrubber 10S18E Potline 6	PM	10.74	47.05
		PM_{10}	7.64	33.45
		$PM_{2.5}$	4.97	21.78
		NOx	0.09	0.40
		CO	138.17	605.18

Emission Sources - Maximum Allowable Emission Rates

		SO_2	16.22	71.05
		COS	2.03	8.88
		PF	1.37	6.00
		HF	0.98	4.29
10F12	Scrubber 10S18W Potline 6	PM	10.74	47.05
		PM_{10}	7.64	33.45
		$PM_{2.5}$	4.97	21.78
		NOx	0.09	0.40
		CO	138.17	605.18
		SO_2	16.22	71.05
		COS	2.03	8.88
		PF	1.37	6.00
		HF	0.98	4.29
F10F-1	Roof Monitor 6-1 Potline 6	PM	6.40	28.03
		PM_{10}	3.71	16.25
		$PM_{2.5}$	1.79	7.84
		NOx	0.01	0.04
		CO	14.39	63.04
		SO_2	2.25	9.87
		COS	0.23	1.03
		PF	1.60	7.01
		HF	2.62	11.48
F10F-2	Roof Monitor 6-2 Potline 6	PM	6.40	28.03
		PM_{10}	3.71	16.25
		$PM_{2.5}$	1.79	7.84

Emission Sources - Maximum Allowable Emission Rates

		NOx	0.01	0.04
		CO	14.39	63.04
		SO_2	2.25	9.87
		COS	0.23	1.03
		PF	1.60	7.01
		HF	2.62	11.48
F10F-3	Roof Monitor 6-3 Potline 6	PM	6.40	28.03
		PM_{10}	3.71	16.25
		$PM_{2.5}$	1.79	7.84
		NOx	0.01	0.04
		CO	14.39	63.04
		SO_2	2.25	9.87
		COS	0.23	1.03
		PF	1.60	7.01
		HF	2.62	11.48
F10F-4	Roof Monitor 6-4 Potline 6	PM	6.40	28.03
		PM_{10}	3.71	16.25
		$PM_{2.5}$	1.79	7.84
		NOx	0.01	0.04
		CO	14.39	63.04
		SO_2	2.25	9.87
		COS	0.23	1.03
		PF	1.60	7.01
		HF	2.62	11.48

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Potline 6 CAP (Includes 4 Roof monitors and 12 Scrubbers EPNs 10F1 thru 10F12 and F10F-1 thru F10F-4)		PM	133.01	582.60
		PM_{10}	91.20	399.48
		$PM_{2.5}$	56.89	249.18
		SO_2	171.23	749.98
		COS	21.22	92.92
		PF	20.10	88.04
		HF	20.27	88.80
		NO_x	0.95	4.15
		CO	1439.26	6303.96
10G1	Fluid Bed Reactor 71E Potline 7	PM	3.76	16.45
		PM_{10}	3.76	16.45
		$PM_{2.5}$	2.45	10.71
		NOx	0.11	0.49
		CO	131.59	576.35
		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.06	0.26
		HF	0.08	0.37
10G2	Fluid Bed Reactor 72E Potline 7	PM	3.76	16.45
		PM_{10}	3.76	16.45
		$PM_{2.5}$	2.45	10.71
		NOx	0.11	0.49
		CO	131.59	576.35
		SO_2	26.48	116.00

Emission Sources - Maximum Allowable Emission Rates

		COS	2.76	12.08
		PF	0.06	0.26
		HF	0.08	0.37
10G3	Fluid Bed Reactor 73E Potline 7	PM	3.76	16.45
		PM_{10}	3.76	16.45
		$PM_{2.5}$	2.45	10.71
		NOx	0.11	0.49
		CO	131.59	576.35
		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.06	0.26
		HF	0.08	0.37
10G4	Fluid Bed Reactor 74E Potline 7	PM	3.76	16.45
		PM_{10}	3.76	16.45
		$PM_{2.5}$	2.45	10.71
		NOx	0.11	0.49
		CO	131.59	576.35
		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.06	0.26
		HF	0.08	0.37
10G5	Fluid Bed Reactor 75E Potline 7	PM	3.76	16.45
		PM_{10}	3.76	16.45
		$PM_{2.5}$	2.45	10.71
		NOx	0.11	0.49

Emission Sources - Maximum Allowable Emission Rates

		CO	131.59	576.35
		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.06	0.26
		HF	0.08	0.37
10G6	Fluid Bed Reactor 76E Potline 7	PM	3.76	16.45
		PM_{10}	3.76	16.45
		$PM_{2.5}$	2.45	10.71
		NOx	0.11	0.49
		CO	131.59	576.35
		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.06	0.26
		HF	0.08	0.37
10G7	Fluid Bed Reactor 71W Potline 7	PM	3.76	16.45
		PM_{10}	3.76	16.45
		$PM_{2.5}$	2.45	10.71
		NOx	0.11	0.49
		CO	131.59	576.35
		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.06	0.26
		HF	0.08	0.37

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10G8	Fluid Bed Reactor 72W Potline 7	PM	3.76	16.45
		PM_{10}	3.76	16.45
		$PM_{2.5}$	2.45	10.71
		NOx	0.11	0.49
		CO	131.59	576.35
		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.06	0.26
		HF	0.08	0.37
10G9	Fluid Bed Reactor 73W Potline 7	PM	3.76	16.45
		PM_{10}	3.76	16.45
		$PM_{2.5}$	2.45	10.71
		NOx	0.11	0.49
		CO	131.59	576.35
		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.06	0.26
		HF	0.08	0.37
10G10	Fluid Bed Reactor 74W Potline 7	PM	3.76	16.45
		PM_{10}	3.76	16.45
		$PM_{2.5}$	2.45	10.71
		NOx	0.11	0.49
		CO	131.59	576.35

Emission Sources - Maximum Allowable Emission Rates

		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.06	0.26
		HF	0.08	0.37
10G11	Fluid Bed Reactor 75W Potline 7	PM	3.76	16.45
		PM_{10}	3.76	16.45
		$PM_{2.5}$	2.45	10.71
		NOx	0.11	0.49
		CO	131.59	576.35
		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.06	0.26
		HF	0.08	0.37
10G12	Fluid Bed Reactor 76W Potline 7	PM	3.76	16.45
		PM_{10}	3.76	16.45
		$PM_{2.5}$	2.45	10.71
		NOx	0.11	0.49
		CO	131.59	576.35
		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.06	0.26
		HF	0.08	0.37
F10G-1	Roof Monitor 7-1 Potline 7	PM	9.17	40.16
		PM_{10}	5.32	23.28
		$PM_{2.5}$	2.57	11.24

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		NOx	0.01	0.03
		CO	6.01	26.33
		SO_2	1.21	5.30
		COS	0.13	0.55
		PF	3.04	13.32
		HF	2.01	8.81
F10G-2	Roof Monitor 7-2 Potline 7	PM	9.17	40.16
		PM_{10}	5.32	23.28
		$PM_{2.5}$	2.57	11.24
		NOx	0.01	0.03
		CO	6.01	26.33
		SO_2	1.21	5.30
		COS	0.13	0.55
		PF	3.04	13.32
		HF	2.01	8.81
F10G-3	Roof Monitor 7-3 Potline 7	PM	9.17	40.16
		PM_{10}	5.32	23.28
		$PM_{2.5}$	2.57	11.74
		NOx	0.01	0.03
		CO	6.01	26.33
		SO_2	1.21	5.30
		COS	0.13	0.55
		PF	3.04	13.32
		HF	2.01	8.81

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F10G-4	Roof Monitor 7-4 Potline 7	PM	9.17	40.16
		PM_{10}	5.32	23.28
		$PM_{2.5}$	2.57	11.24
		NOx	0.01	0.03
		CO	6.01	26.33
		SO2	1.21	5.30
		COS	0.13	0.55
		PF	3.04	13.32
		HF	2.01	8.81
Potline 7 CAP (Includes 4 Roof monitors and 12 Scrubbers EPNs 10G1 thru 10G12 and F10G-1 thru F10G-4)		PM	81.75	358.05
		PM_{10}	66.33	290.53
		$PM_{2.5}$	39.61	173.50
		SO_2	322.65	1413.19
		COS	33.61	147.21
		PF	12.88	56.41
		HF	9.05	39.65
		NO_x	1.36	5.94
		CO	1603.10	7021.56
10G13	Reacted Alumina Baghouse-Potline 7	PM	0.03	0.13
		PM_{10}	0.03	0.13
		$PM_{2.5}$	0.02	0.08
		PF	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

10G14	Reacted Alumina Baghouse-Potline 7	PM	0.03	0.13
		PM_{10}	0.03	0.13
		$PM_{2.5}$	0.02	0.08
		PF	<0.01	<0.01
10H1	Fluid Bed Reactor 81E Potline 8 (3 Stacks)	PM	3.31	14.52
		PM_{10}	3.31	14.52
		$PM_{2.5}$	2.16	9.45
		NOx	0.11	0.49
		CO	131.59	576.35
		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.07	0.31
		HF	0.18	0.78
10H2	Fluid Bed Reactor 82E Potline 8 (3 Stacks)	PM	3.31	14.52
		PM_{10}	3.31	14.52
		$PM_{2.5}$	2.16	9.45
		NOx	0.11	0.49
		CO	131.59	576.35
		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.07	0.31
		HF	0.18	0.78
10H3	Fluid Bed Reactor 83E Potline 8 (3 Stacks)	PM	3.31	14.52
		PM_{10}	3.31	14.52
		$PM_{2.5}$	2.16	9.45

Emission Sources - Maximum Allowable Emission Rates

		NOx	0.11	0.49
		CO	131.59	576.35
		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.07	0.31
		HF	0.18	0.78
10H4	Fluid Bed Reactor 84E Potline 8 (3 Stacks)	PM	3.31	14.52
		PM_{10}	3.31	14.52
		$PM_{2.5}$	2.16	9.45
		NOx	0.11	0.49
		CO	131.59	576.35
		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.07	0.31
		HF	0.18	0.78
10H5	Fluid Bed Reactor 85E Potline 8 (3 Stacks)	PM	3.31	14.52
		PM_{10}	3.31	14.52
		$PM_{2.5}$	2.16	9.45
		NOx	0.11	0.49
		CO	131.59	576.35
		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.07	0.31
		HF	0.18	0.78

Emission Sources - Maximum Allowable Emission Rates

10H6	Fluid Bed Reactor 86E Potline 8 (3 Stacks)	PM	3.31	14.52
		PM_{10}	3.31	14.52
		$PM_{2.5}$	2.16	9.45
		NOx	0.11	0.49
		CO	131.59	576.35
		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.07	0.31
		HF	0.18	0.78
10H7	Fluid Bed Reactor 81W Potline 8 (3 Stacks)	PM	3.31	14.52
		PM_{10}	3.31	14.52
		$PM_{2.5}$	2.16	9.45
		NOx	0.11	0.49
		CO	131.59	576.35
		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.07	0.31
		HF	0.18	0.78
10H8	Fluid Bed Reactor 82W Potline 8	PM	3.31	14.52
		PM_{10}	3.31	14.52
		$PM_{2.5}$	2.16	9.45
		NOx	0.11	0.49
		CO	131.59	576.35

Emission Sources - Maximum Allowable Emission Rates

		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.07	0.31
		HF	0.18	0.78
10H9	Fluid Bed Reactor 83W Potline 8	PM	3.31	14.52
		PM_{10}	3.31	14.52
		$PM_{2.5}$	2.16	9.45
		NOx	0.11	0.49
		CO	131.59	576.35
		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.07	0.31
		HF	0.18	0.78
10H10	Fluid Bed Reactor 84W Potline 8	PM	3.31	14.52
		PM_{10}	3.31	14.52
		$PM_{2.5}$	2.16	9.45
		NOx	0.11	0.49
		CO	131.59	576.35
		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.07	0.31
		HF	0.18	0.78
10H11	Fluid Bed Reactor 85W Potline 8	PM	3.31	14.52
		PM_{10}	3.31	14.52
		$PM_{2.5}$	2.16	9.45

Emission Sources - Maximum Allowable Emission Rates

		NOx	0.11	0.49
		CO	131.59	576.35
		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.07	0.31
		HF	0.18	0.78
10H12	Fluid Bed Reactor 86W Potline 8	PM	3.31	14.52
		PM_{10}	3.31	14.52
		$PM_{2.5}$	2.16	9.45
		NOx	0.11	0.49
		CO	131.59	576.35
		SO_2	26.48	116.00
		COS	2.76	12.08
		PF	0.07	0.31
		HF	0.18	0.78
F10H-1	Roof Monitor 8-1 Potline 8	PM	9.17	40.16
		PM_{10}	5.32	23.28
		$PM_{2.5}$	2.57	11.24
		NOx	0.01	0.02
		CO	6.01	26.33
		SO_2	1.21	5.30
		COS	0.13	0.55
		PF	2.37	10.38
		HF	1.72	7.52

Emission Sources - Maximum Allowable Emission Rates

F10H-2	Roof Monitor 8-2 Potline 8	PM	9.17	40.16
		PM_{10}	5.32	23.28
		$PM_{2.5}$	2.57	11.24
		NOx	0.01	0.02
		CO	6.01	26.33
		SO_2	1.21	5.30
		COS	0.13	0.55
		PF	2.37	10.38
		HF	1.72	7.52
F10H-3	Roof Monitor 8-3 Potline 8	PM	9.17	40.16
		PM_{10}	5.32	23.28
		$PM_{2.5}$	2.57	11.24
		NOx	0.01	0.02
		CO	6.01	26.33
		SO_2	1.21	5.30
		COS	0.13	0.55
		PF	2.37	10.38
		HF	1.72	7.52
F10H-4	Roof Monitor 8-4 Potline 8	PM	9.17	40.16
		PM_{10}	5.32	23.28
		$PM_{2.5}$	2.57	11.24
		NOx	0.01	0.02
		CO	6.01	26.33

Emission Sources - Maximum Allowable Emission Rates

		SO_2	1.21	5.30
		COS	0.13	0.55
		PF	2.37	10.38
		HF	1.72	7.52
Potline 8 CAP (Includes 4 Roof monitors and 12 Scrubbers EPNs 10H1 thru 10H12 and F10H-1 thru F10H-4)		PM	76.46	334.89
		PM_{10}	61.04	267.36
		$PM_{2.5}$	36.17	158.41
		SO_2	322.65	1413.19
		COS	33.61	147.21
		PF	10.32	45.20
		HF	9.01	39.47
		NO_x	1.36	5.94
		CO	1603.10	7021.56
10H13	Reacted Alumina Baghouse Potline 8	PM	0.07	0.32
		PM_{10}	0.07	0.32
		$PM_{2.5}$	0.05	0.21
		PF	<0.01	0.08
10H14	Reacted Alumina Baghouse Potline 8	PM	0.07	0.32
		PM_{10}	0.07	0.32
		$PM_{2.5}$	0.05	0.21
		PF	<0.01	0.08
11A	Lime Storage Baghouse	PM	0.14	0.16
		PM_{10}	0.14	0.16
		$PM_{2.5}$	0.07	0.08

Emission Sources - Maximum Allowable Emission Rates

13B	Furnace 5	PM	5.67	24.84
		PM_{10}	2.84	12.42
		$PM_{2.5}$	2.84	12.42
		NOx	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
		$PM_{2.5}$	2.84	12.42
		NOx	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
		PM_{10}	2.84	12.42
		$PM_{2.5}$	2.84	12.42
		NOx	1.68	3.55
		CO	0.66	2.89

Emission Sources - Maximum Allowable Emission Rates

		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	0.29	1.26
		PM_{10}	0.29	1.26
		$PM_{2.5}$	0.29	1.26
		NOx	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}/ $PM_{2.5}$	0.29	1.26
		PM_{10}	0.29	1.26
		$PM_{2.5}$	0.29	1.26
		NOx	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
		$PM_{2.5}$	0.10	0.43
		NOx	2.75	5.80

Emission Sources - Maximum Allowable Emission Rates

		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
		$PM_{2.5}$	0.10	0.43
		NOx	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
		$PM_{2.5}$	0.99	4.32
2C	Coke Milling, Screening, and Transfer	PM	1.02	4.46
		PM_{10}	1.02	4.46
		$PM_{2.5}$	0.53	2.33
		F_2	<0.01	<0.01
2E	Coke Milling, Screening, and Transfer	PM	0.12	0.56
		PM_{10}	0.12	0.56
		$PM_{2.5}$	0.06	0.29
2F	Coke Milling, Screening, and Transfer	PM	0.60	2.55
		PM_{10}	0.60	2.55
		$PM_{2.5}$	0.31	1.33

Emission Sources - Maximum Allowable Emission Rates

2G	Ball Mill CC30	PM	0.38	1.67
		PM_{10}	0.38	1.67
		$PM_{2.5}$	0.20	0.87
2H	Ball Mill CC60	PM	0.07	0.29
		PM_{10}	0.07	0.29
		$PM_{2.5}$	0.04	0.15
9C	Belt Conveyor 42A Baghouse	PM	0.06	0.26
		PM_{10}	0.06	0.26
		$PM_{2.5}$	0.04	0.17
		PF	<0.01	<0.01
9D	Transfer Point 42B Baghouse	PM	0.12	0.52
		PM_{10}	0.12	0.52
		$PM_{2.5}$	0.08	0.34
		PF	<0.01	<0.01
9E	Transfer Point 42C Baghouse	PM	0.12	0.52
		PM_{10}	0.12	0.52
		$PM_{2.5}$	0.08	0.34
		PF	<0.01	0.01
9G2	Storage Tank 19H Baghouse	PM	0.05	0.21
		PM_{10}	0.05	0.21
		$PM_{2.5}$	0.03	0.14
		PF	<0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

9G3	Storage Tank 19W Baghouse	PM	0.08	0.35
		PM_{10}	0.08	0.35
		$PM_{2.5}$	0.05	0.23
		PF	<0.01	0.01
9G3A	Day Tank 19X Baghouse	PM	0.08	0.36
		PM_{10}	0.08	0.36
		$PM_{2.5}$	0.05	0.23
		PF	<0.01	0.01
9G4-1	Reacted Alumina Tank 21R Baghouse	PM	0.02	0.07
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.01	0.05
		PF	<0.01	<0.01
9G4-2	Reacted Alumina Tank 21R Baghouse	PM	0.04	0.18
		PM_{10}	0.04	0.18
		$PM_{2.5}$	0.03	0.12
		PF	<0.01	<0.01
9G5	Storage Tank 129E Baghouse	PM	0.04	0.19
		PM_{10}	0.04	0.19
		$PM_{2.5}$	0.03	0.12
		PF	<0.01	<0.01
9G6	Day Tank 129G Baghouse	PM	0.03	0.15
		PM_{10}	0.03	0.15
		$PM_{2.5}$	0.02	0.10
		PF	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

9G7-1	Alumina Tank 129M Baghouse	PM	0.04	0.19
		PM_{10}	0.04	0.19
		$PM_{2.5}$	0.03	0.12
		PF	<0.01	<0.01
9G7-2	Alumina Tank 129R Baghouse	PM	0.04	0.16
		PM_{10}	0.04	0.16
		$PM_{2.5}$	0.03	0.10
		PF	<0.01	<0.01
9G8	Alumina Tank 129W Baghouse	PM	0.06	0.26
		PM_{10}	0.06	0.26
		$PM_{2.5}$	0.04	0.17
		PF	<0.01	<0.01
9G9	Day Tank 129X Baghouse	PM	0.04	0.19
		PM_{10}	0.04	0.19
		$PM_{2.5}$	0.03	0.12
		PF	<0.01	0.01
9G10	Storage Tank 133 Baghouse	PM	0.04	0.15
		PM_{10}	0.04	0.15
		$PM_{2.5}$	0.03	0.10
		PF	<0.01	<0.01
9G11	Day Tank 133G Baghouse	PM	0.04	0.19
		PM_{10}	0.04	0.19
		$PM_{2.5}$	0.03	0.12
		PF	<0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

9G12-1	Storage Tank 133M Baghouse	PM	0.04	0.16
		PM_{10}	0.04	0.16
		$PM_{2.5}$	0.03	0.10
		PF	<0.01	<0.01
9G12-2	Storage Tank 133M Baghouse	PM	0.04	0.18
		PM_{10}	0.04	0.18
		$PM_{2.5}$	0.03	0.12
		PF	<0.01	<0.01
9G13	Storage Tank 133W Baghouse	PM	0.04	0.17
		PM_{10}	0.04	0.17
		$PM_{2.5}$	0.03	0.11
		PF	<0.01	0.01
9G14	Storage Tank 133X Baghouse	PM	0.03	0.15
		PM_{10}	0.03	0.15
		$PM_{2.5}$	0.02	0.10
		PF	<0.01	0.01
9G15-1	Reacted Alumina Tank 133R Baghouse	PM	0.04	0.17
		PM_{10}	0.04	0.17
		$PM_{2.5}$	0.03	0.11
		PF	<0.01	0.01
9G15-2	Reacted Alumina Tank 133R Baghouse	PM	0.04	0.17
		PM_{10}	0.04	0.17
		$PM_{2.5}$	0.03	0.11
		PF	<0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

9G16-1	Reacted Alumina Tank 129R Baghouse	PM	0.04	0.17
		PM_{10}	0.04	0.17
		$PM_{2.5}$	0.03	0.11
		PF	<0.01	0.01
9G16-2	Reacted Alumina Tank 129R Baghouse	PM	0.04	0.17
		PM_{10}	0.04	0.17
		$PM_{2.5}$	0.03	0.11
		PF	<0.01	0.01
9G17	Air Slide 9T21 Baghouse	PM	0.21	0.54
		PM_{10}	0.21	0.54
		$PM_{2.5}$	0.14	0.35
		PF	<0.01	0.01
9G18	Elevator Tower Line 5 Baghouse	PM	0.05	0.22
		PM_{10}	0.05	0.22
		$PM_{2.5}$	0.03	0.14
		PF	0.01	0.01
9G19	41 Lower Conveyor Belt Vent (5)	PM	0.39	1.70
		PM_{10}	0.39	1.70
		$PM_{2.5}$	0.06	0.26
		PF	0.01	0.04
9G20	41 Upper Conveyor Belt Vent (5)	PM	0.08	0.34
		PM_{10}	0.08	0.34
		$PM_{2.5}$	0.01	0.05
		PF	<0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

9G25	Potline 1 Ore Fill Station Baghouse	PM	0.19	0.81
		PM_{10}	0.19	0.81
		$PM_{2.5}$	0.12	0.53
9G26	Potline 2 Ore Fill Station Baghouse	PM	0.19	0.81
		PM_{10}	0.19	0.81
		$PM_{2.5}$	0.12	0.53
9G27	Potline 3 Ore Fill Station Baghouse	PM	0.19	0.81
		PM_{10}	0.19	0.81
		$PM_{2.5}$	0.12	0.53
9G28	Potline 4 Ore Fill Station Baghouse	PM	0.19	0.81
		PM_{10}	0.19	0.81
		$PM_{2.5}$	0.12	0.53
90REVENT	Ore Tank Vents (5)	PM	0.01	0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
4A	Steam Boiler No. 1	PM	0.29	1.26
		PM_{10}	0.29	1.26
		$PM_{2.5}$	0.29	1.26
		NOx	8.08	17.07
		CO	3.17	13.89
		SO_2	0.02	0.10
		VOC	0.21	0.91
4B	Steam Boiler No. 2	PM	0.29	1.26
		PM_{10}	0.29	1.26
		$PM_{2.5}$	0.29	1.26

Emission Sources - Maximum Allowable Emission Rates

		NOx	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	1.33	5.81
		PM_{10}	1.33	5.81
		$PM_{2.5}$	0.69	3.03
7F	Anode Cleaning-General Baghouse	PM	0.75	3.29
		PM_{10}	0.75	3.29
		$PM_{2.5}$	0.39	1.72
7G	Anode Cleaning-General Baghouse	PM	0.75	3.29
		PM_{10}	0.73	3.29
		$PM_{2.5}$	0.39	1.72
8D	Heat, Steam, and Power Boiler	PM	0.02	0.10
		PM_{10}	0.02	0.10
		$PM_{2.5}$	0.02	0.10
		NOx	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
		$PM_{2.5}$	0.03	0.15
		NOx	0.94	2.00

Emission Sources - Maximum Allowable Emission Rates

		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
		$PM_{2.5}$	0.03	0.10
		NOx	0.63	1.33
		CO	0.25	1.09
		SO_2	<0.01	0.01
		VOC	0.02	0.08
F15	Skim Storage Room	PM	0.02	0.10
		PM_{10}	0.02	0.10
		$PM_{2.5}$	<0.01	0.02
F1A	Coke and Pitch Unloading	PM	0.05	0.03
		PM_{10}	0.05	0.03
		$PM_{2.5}$	0.01	<0.01
F1B	Coke Unloading	PM	0.05	<0.01
		PM_{10}	0.05	<0.01
		$PM_{2.5}$	0.01	<0.01
F9A	Ore Unloading Station	PM	0.01	0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	,0.01
V8C1	Potling Mixing Cathode Material Mixing	PM	0.01	<0.01
		$PM_{2.5}$	0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

V8C2	Potling Mixing Cathode Material Mixing	PM	0.01	<0.01
		PM_{10}	0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
FBLDG80	Lab Emissions	IPA	-	0.30
		$C_6H_5CH_3$	-	0.06
		CH_3COCH_3	-	0.33
13FUG1	Ingot Plant Fugitives (5) Ingot Plant Roof Vents	PM	0.06	0.24
		PM_{10}	0.06	0.24
		$PM_{2.5}$	0.06	0.24
		NOx	0.72	3.17
		CO	0.61	2.66
		SO_2	0.01	0.02
		VOC	0.042	0.17
		Cl_2	1.80	0.25
		HCl	2.76	0.07
F11C	Lime Unloading	PM	0.01	<0.01
		PM_{10}	0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
9CONV41	Conveyor Belt 41 (5)	PM	0.17	0.36
		PM_{10}	0.08	0.17
		$PM_{2.5}$	0.01	0.03
9CONV42	Conveyor Belt 42 (5)	PM	0.23	0.49
		PM_{10}	0.11	0.24
		$PM_{2.5}$	0.02	0.04

Emission Sources - Maximum Allowable Emission Rates

(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) 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 - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - 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_5CH3 - toluene
CH_3COCH_3 - acetone
COS - carbonyl sulfide
Cl_2 - chlorine
HAP -hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of `Federal Regulations Part 63, Subpart C
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Total authorized VOC emissions is the sum of the speciated and un-speciated VOC values, i.e. includes IPA, toluene, COS, and VOC.

Date: _____