## 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 (6) 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 (6) (7)		
140. (1)		Name (3)	lbs/hour	TPY (4)	
10E1	Fluid Bed Reactor 51N Potline 5 (3 Stacks)	РМ	3.78	16.56	
	Totalic 5 (5 Stacks)	PM <sub>10</sub>	3.78	16.56	
		PM <sub>2.5</sub>	2.46	10.78	
		NO <sub>x</sub>	0.10	0.45	
		СО	121.89	533.89	
		SO <sub>2</sub>	20.36	89.19	
		cos	2.12	9.29	
		PF	0.18	0.79	
		HF	0.08	0.37	
10E2	Fluid Bed Reactor 52N Potline 5 (3 Stacks)	РМ	3.78	16.56	
		PM <sub>10</sub>	3.78	16.56	
		PM <sub>2.5</sub>	2.46	10.78	
		NO <sub>x</sub>	0.10	0.45	
		СО	121.89	533.89	
		SO <sub>2</sub>	20.36	89.19	
		cos	2.12	9.29	
		PF	0.18	0.79	
		HF	0.08	0.37	
10E3	Fluid Bed Reactor 53N Potline 5 (3 Stacks)	РМ	3.78	16.56	
	. James o (o Judio)	PM <sub>10</sub>	3.78	16.56	

1		Maximum Allowable E		
		PM <sub>2.5</sub>	2.46	10.78
		NO <sub>x</sub>	0.10	0.45
		СО	121.89	533.89
		SO <sub>2</sub>	20.36	89.19
		cos	2.12	9.29
		PF	0.18	0.79
		HF	0.08	0.37
10E4	Fluid Bed Reactor 54N Potline 5 (3 Stacks)	РМ	3.78	16.56
	Totaline o (o otaono)	PM <sub>10</sub>	3.78	16.56
		PM <sub>2.5</sub>	2.46	10.78
		NO <sub>x</sub>	0.10	0.45
		СО	121.89	533.89
		SO <sub>2</sub>	20.36	89.19
		cos	2.12	9.29
		PF	0.18	0.79
		HF	0.08	0.37
10E5	Fluid Bed Reactor 55S Potline 5 (3 Stacks)	РМ	3.78	16.56
	Totalic 5 (5 Stacks)	PM <sub>10</sub>	3.78	16.56
		PM <sub>2.5</sub>	2.46	10.78
		NO <sub>x</sub>	0.10	0.45
		со	121.89	533.89
		SO <sub>2</sub>	20.36	89.19
		cos	2.12	9.29
		PF	0.18	0.79
		HF	0.08	0.37
10E6	Fluid Bed Reactor 56S Potline 5 (3 Stacks)	PM	3.78	16.56

	Linission Sources	PM <sub>10</sub>	3.78	16.56
		PM <sub>2.5</sub>	2.46	10.78
		NO <sub>x</sub>	0.10	0.45
		СО	121.89	533.89
		SO <sub>2</sub>	20.36	89.19
		cos	2.12	9.29
		PF	0.18	0.79
		HF	0.08	0.37
10E7	Fluid Bed Reactor 57S Potline 5 (3 Stacks)	РМ	3.78	16.56
	Totaline o (o otaciko)	PM <sub>10</sub>	3.78	16.56
		PM <sub>2.5</sub>	2.47	10.78
		NO <sub>x</sub>	0.10	0.45
		СО	121.89	533.89
		SO <sub>2</sub>	20.36	89.19
		cos	2.12	9.29
		PF	0.18	0.79
		HF	0.08	0.37
10E8	Fluid Bed Reactor 58S Potline 5 (3 Stacks)	РМ	3.78	16.56
	Potime 5 (5 Stacks)	PM <sub>10</sub>	3.78	16.56
		PM <sub>2.5</sub>	2.46	10.78
		NO <sub>x</sub>	0.10	0.45
		со	121.89	533.89
		SO <sub>2</sub>	20.36	89.19
		cos	2.12	9.29
		PF	0.18	0.79
		HF	0.08	0.37

10E9	Fluid Bed Reactor 59S Potline 5 (3 Stacks)	PM	3.78	16.56
	Totime 5 (5 Stacks)	PM <sub>10</sub>	3.78	16.56
		PM <sub>2.5</sub>	2.46	10.78
		NO <sub>x</sub>	0.10	0.45
		со	121.89	533.89
		SO <sub>2</sub>	20.36	89.19
		cos	2.12	9.29
		PF	0.18	0.79
		HF	0.08	0.37
F10E-1	Roof Monitor 5-1 Potline 5	РМ	6.40	28.03
	rounie 3	PM <sub>10</sub>	3.71	16.25
		PM <sub>2.5</sub>	1.79	7.84
		NO <sub>x</sub>	0.01	0.03
		СО	5.60	24.52
		SO <sub>2</sub>	0.94	4.10
		cos	0.10	0.43
		PF	1.94	8.50
		HF	1.71	7.47
F10E-2	Roof Monitor 5-2 Potline 5	РМ	6.40	28.03
		PM <sub>10</sub>	3.71	16.25
		PM <sub>2.5</sub>	1.79	7.84
		NO <sub>x</sub>	0.01	0.03
		со	5.60	24.52
		SO <sub>2</sub>	0.94	4.10
		cos	0.10	0.43
		PF	1.94	8.50

	Emission Sources	- Maximum Allo	wable Emission Rates	
		HF	1.71	7.47
F10E-3	Roof Monitor 5-3 Potline 5	PM	6.40	28.03
	Tourie 3	PM <sub>10</sub>	3.71	16.25
		PM <sub>2.5</sub>	1.79	7.84
		NO <sub>x</sub>	0.01	0.03
		СО	5.60	24.52
		SO <sub>2</sub>	0.94	4.10
		cos	0.10	0.43
		PF	1.94	8.50
		HF	1.71	7.47
F10E-4	Roof Monitor 5-4 Potline 5	PM	6.40	28.03
		PM <sub>10</sub>	3.71	16.25
		PM <sub>2.5</sub>	1.79	7.84
		NO <sub>x</sub>	0.01	0.03
		СО	5.60	24.52
		SO <sub>2</sub>	0.94	4.10
		cos	0.10	0.43
		PF	1.94	8.50
		HF	1.71	7.47
Potline 5 CAP		PM	59.62	261.12
(Includes 4 Roof M	Ionitors and 9 Scrubbers	PM <sub>10</sub>	48.86	214.00
(Includes 4 Roof Monitors and 9 Scrubbers EPNs 10E1 thru 10E9 and F10E-1 thru F10E-4)		PM <sub>2.5</sub>	29.31	128.40
		SO <sub>2</sub>	187.0	819.05
		cos	19.48	85.32
		PF	9.38	41.08
		HF	7.58	33.20
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Emission Sources - Maximum Allowable Emission Ra
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1	Emission Sources	- <u>Maximum Alic</u>	wable Emission Rates	
		NO <sub>x</sub>	0.95	4.15
		СО	1119.42	4903.08
10E10	Reacted Alumina Baghouse Stack - Potline	РМ	0.04	0.16
	5	PM <sub>10</sub>	0.04	0.16
		PM <sub>2.5</sub>	0.03	0.10
		PF	<0.01	0.01
10E11	Reacted Alumina Baghouse Stack - Potline	РМ	0.04	0.16
	5	PM <sub>10</sub>	0.04	0.16
		PM <sub>2.5</sub>	0.03	0.10
		PF	<0.01	0.01
10F1	Scrubber 10S13E Stack Potline 6	РМ	10.74	47.05
	T duite d	PM <sub>10</sub>	7.64	33.45
		PM <sub>2.5</sub>	4.97	21.78
		NO <sub>x</sub>	0.09	0.40
		СО	138.17	605.18
		SO <sub>2</sub>	13.46	58.97
		cos	1.68	7.37
		PF	1.37	6.00
		HF	0.98	4.29
10F2	Scrubber 10S13W Stack Potline 6	РМ	10.74	47.05
	T dunie d	PM <sub>10</sub>	7.64	33.45
		PM <sub>2.5</sub>	4.97	21.78
		NO <sub>x</sub>	0.09	0.40
		со	138.17	605.18
		SO <sub>2</sub>	13.46	58.97
		cos	1.68	7.37

	PF	1.37	6.00
	HF	0.98	4.29
Scrubber 10S14E Stack	РМ	10.74	47.05
	PM <sub>10</sub>	7.64	33.45
	PM <sub>2.5</sub>	4.97	21.78
	NO <sup>x</sup>	0.09	0.40
	СО	138.17	605.18
	SO <sub>2</sub>	13.46	58.97
	cos	1.68	7.37
	PF	1.37	6.00
	HF	0.98	4.29
Scrubber 10S14W Stack	PM	10.74	47.05
	PM <sub>10</sub>	7.64	33.45
	PM <sub>2.5</sub>	4.97	21.78
	NO <sub>x</sub>	0.09	0.40
	СО	138.17	605.18
	SO <sub>2</sub>	13.46	58.97
	cos	1.68	7.37
	PF	1.37	6.00
	HF	0.98	4.29
Scrubber 10S15E Stack Potline 6	PM	10.74	47.05
	PM <sub>10</sub>	7.64	33.45
	PM <sub>2.5</sub>	4.97	21.78
	NO <sub>x</sub>	0.09	0.40
	СО	138.17	605.18
	SO <sub>2</sub>	13.46	58.97
	Scrubber 10S14E Stack Potline 6  Scrubber 10S14W Stack Potline 6  Scrubber 10S15E Stack	PF	HF   0.98

Emission Sources - Maximum Allor	wable Emission Rates
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1	Emission Sources	- Waxiiiiuiii Alio	owable Emission Rates	
		cos	1.68	7.37
		PF	1.37	6.00
		HF	0.98	4.29
10F6	Scrubber 10S15W Stack Potline 6	РМ	10.74	47.05
		PM <sub>10</sub>	7.64	33.45
		PM <sub>2.5</sub>	4.97	21.78
		NO <sub>x</sub>	0.09	0.40
		СО	138.17	605.18
		SO <sub>2</sub>	13.46	58.97
		cos	1.68	7.37
		PF	1.37	6.00
		HF	0.98	4.29
10F7	Scrubber 10S16E Stack Potline 6	РМ	10.74	47.05
		PM <sub>10</sub>	7.64	33.45
		PM <sub>2.5</sub>	4.97	21.78
		NO <sub>x</sub>	0.09	0.40
		СО	138.17	605.18
		SO <sub>2</sub>	13.46	58.97
		cos	1.68	7.37
		PF	1.37	6.00
		HF	0.98	4.29
10F8	Scrubber 10S16W Stack Potline 6	РМ	10.74	47.05
		PM <sub>10</sub>	7.64	33.45
		PM <sub>2.5</sub>	4.97	21.78
		NO <sub>x</sub>	0.09	0.40
		СО	138.17	605.18
	·			

		SO <sub>2</sub>	13.46	58.97
		cos	1.68	7.37
		PF	1.37	6.00
		HF	0.98	4.29
10F9	Scrubber 10S17E Stack Potline 6	РМ	10.74	47.05
		PM <sub>10</sub>	7.64	33.45
		PM <sub>2.5</sub>	4.97	21.78
		NO <sub>x</sub>	0.09	0.40
		со	138.17	605.18
		SO <sub>2</sub>	13.46	58.97
		cos	1.68	7.37
		PF	1.37	6.00
		HF	0.98	4.29
10F10	Scrubber 10S17W Stack Potline 6	PM	10.74	47.05
		PM <sub>10</sub>	7.64	33.45
		PM <sub>2.5</sub>	4.97	21.78
		NO <sub>x</sub>	0.09	0.40
		со	138.17	605.18
		SO <sub>2</sub>	13.46	58.97
		cos	1.68	7.37
		PF	1.37	6.00
		HF	0.98	4.29
10F11	Scrubber 10S18E Stack Potline 6	PM	10.74	47.05
		PM <sub>10</sub>	7.64	33.45
		PM <sub>2.5</sub>	4.97	21.78
		NO <sub>x</sub>	0.09	0.40

1	I Emission Sources	- Maximum Allowable	Linission rates	T
		СО	138.17	605.18
		SO <sub>2</sub>	13.46	58.97
		cos	1.68	7.37
		PF	1.37	6.00
		HF	0.98	4.29
10F12	Scrubber 10S18W Stack Potline 6	РМ	10.74	47.05
		PM <sub>10</sub>	7.64	33.45
		PM <sub>2.5</sub>	4.97	21.78
		NO <sub>x</sub>	0.09	0.40
		СО	138.17	605.18
		SO <sub>2</sub>	13.46	58.97
		cos	1.68	7.37
		PF	1.37	6.00
		HF	0.98	4.29
F10F-1	Roof Monitor 6-1 Potline 6	PM	6.40	28.03
	r duite d	PM <sub>10</sub>	3.71	16.25
		PM <sub>2.5</sub>	1.79	7.84
		NO <sub>x</sub>	0.01	0.04
		со	14.39	63.04
		SO <sub>2</sub>	1.87	8.19
		cos	0.20	0.85
		PF	1.60	7.01
		HF	2.62	11.48
F10F-2	Roof Monitor 6-2 Potline 6	РМ	6.40	28.03
		PM <sub>10</sub>	3.71	16.25
		PM <sub>2.5</sub>	1.79	7.84
Project Number: 227860				

Emission Sources - Maximum Allowable Emission Ra
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1	EIIIISSIOII Sources	- Maximum Allowable E	THISSIUT Rates	Г	
		NO <sub>x</sub>	0.01	0.04	
		СО	14.39	63.04	
		SO <sub>2</sub>	1.87	8.19	
		cos	0.20	0.85	
		PF	1.60	7.01	
		HF	2.62	11.48	
F10F-3	Roof Monitor 6-3 Potline 6	РМ	6.40	28.03	
		PM <sub>10</sub>	3.71	16.25	
		PM <sub>2.5</sub>	1.79	7.84	
		NO <sub>x</sub>	0.01	0.04	
		со	14.39	63.04	
		SO <sub>2</sub>	1.87	8.19	
		cos	0.20	0.85	
		PF	1.60	7.01	
		HF	2.62	11.48	
F10F-4	Roof Monitor 6-4 Potline 6	РМ	6.40	28.03	
		PM <sub>10</sub>	3.71	16.25	
		PM <sub>2.5</sub>	1.79	7.84	
		NO <sub>x</sub>	0.01	0.04	
		СО	14.39	63.04	
		SO <sub>2</sub>	1.87	8.19	
		cos	0.20	0.85	
		PF	1.60	7.01	
		HF	2.62	11.48	
Potline 6 CAP		РМ	133.01	582.60	
(Includes 4 Roof Monitors and 12 Scrubbers EPNs 10F1 thru 10F12		PM <sub>10</sub>	91.20	399.48	
Project Number: 227860					

Emission Sources -	Maximum Allowable Ei	nission Rates

			ibic Emission rates	
		PM <sub>2.5</sub>	56.89	249.18
		SO <sub>2</sub>	142.12	622.48
		cos	17.61	77.13
		PF	20.10	88.04
		HF	20.27	88.80
		NO <sub>x</sub>	0.95	4.15
		СО	1439.26	6303.96
10G1	Fluid Bed Reactor 71E Stack	PM	3.76	16.45
	Potline 7	PM <sub>10</sub>	3.76	16.45
		PM <sub>2.5</sub>	2.45	10.71
		NO <sub>x</sub>	0.11	0.49
		СО	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.06	0.26
		HF	0.08	0.37
10G2	Fluid Bed Reactor 72E Stack	PM	3.76	16.45
	Potline 7	PM <sub>10</sub>	3.76	16.45
		PM <sub>2.5</sub>	2.45	10.71
		NO <sub>x</sub>	0.11	0.49
		СО	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.06	0.26
10G3	Fluid Bed Reactor 73E Stack	PM	3.76	16.45
	Potline 7	PM <sub>10</sub>	3.76	16.45

			<u> </u>	
		PM <sub>2.5</sub>	2.45	10.71
		NO <sub>x</sub>	0.11	0.49
		СО	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.06	0.26
		HF	0.08	0.37
10G4	Fluid Bed Reactor 74E Stack	PM	3.76	16.45
	Potline 7	PM <sub>10</sub>	3.76	16.45
		PM <sub>2.5</sub>	2.45	10.71
		NO <sub>x</sub>	0.11	0.49
		СО	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.06	0.26
		HF	0.08	0.37
10G5	Fluid Bed Reactor 75E Stack	PM	3.76	16.45
	Potline 7	PM <sub>10</sub>	3.76	16.45
		PM <sub>2.5</sub>	2.45	10.71
		NO <sub>x</sub>	0.11	0.49
		СО	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.06	0.26
		HF	0.08	0.37
10G6 Project Number: 227860	Fluid Bed Reactor 76E Stack	РМ	3.76	16.45

		PM <sub>10</sub>	3.76	16.45
		PM <sub>2.5</sub>	2.45	10.71
		NO <sub>x</sub>	0.11	0.49
		со	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.06	0.26
		HF	0.08	0.37
10G7	Fluid Bed Reactor 71W Stack	РМ	3.76	16.45
	Potline 7	PM <sub>10</sub>	3.76	16.45
		PM <sub>2.5</sub>	2.45	10.71
		NO <sub>x</sub>	0.11	0.49
		со	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.06	0.26
		HF	0.08	0.37
10G8	Fluid Bed Reactor 72W Stack	РМ	3.76	16.45
	Potline 7	PM <sub>10</sub>	3.76	16.45
		PM <sub>2.5</sub>	2.45	10.71
		NO <sub>x</sub>	0.11	0.49
		СО	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.06	0.26
		HF	0.08	0.37

10G9	Fluid Bed Reactor 73W Stack Potline 7	PM	3.76	16.45
		PM <sub>10</sub>	3.76	16.45
		PM <sub>2.5</sub>	2.45	10.71
		NO <sub>x</sub>	0.11	0.49
		СО	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.06	0.26
		HF	0.08	0.37
10G10	Fluid Bed Reactor 74W Stack	PM	3.76	16.45
	Potline 7	PM <sub>10</sub>	3.76	16.45
		PM <sub>2.5</sub>	2.45	10.71
		NO <sub>x</sub>	0.11	0.49
		СО	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.06	0.26
		HF	0.08	0.37
10G11	Fluid Bed Reactor 75W Stack Potline 7	PM	3.76	16.45
		PM <sub>10</sub>	3.76	16.45
		PM <sub>2.5</sub>	2.45	10.71
		NO <sub>x</sub>	0.11	0.49
		СО	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.06	0.26

•	Emission Sources	- Maximum Allowable Emission Rates		
		HF	0.08	0.37
10G12	Fluid Bed Reactor 76W Stack	РМ	3.76	16.45
	Potline 7	PM <sub>10</sub>	3.76	16.45
		PM <sub>2.5</sub>	2.45	10.71
		NO <sub>x</sub>	0.11	0.49
		СО	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.06	0.26
		HF	0.08	0.37
F10G 1	Roof Monitor 7-1 Potline 7	РМ	9.17	40.16
	1 Othine 1	PM <sub>10</sub>	5.32	23.28
		PM <sub>2.5</sub>	2.57	11.24
		NO <sub>x</sub>	0.01	0.03
		СО	6.01	26.33
		SO <sub>2</sub>	1.00	4.40
		cos	0.11	0.46
		PF	3.04	13.32
		HF	2.01	8.81
F10G-2	Roof Monitor 7-2 Potline 7	РМ	9.17	40.16
	1 Othric 1	PM <sub>10</sub>	5.32	23.28
		PM <sub>2.5</sub>	2.57	11.24
		NO <sub>x</sub>	0.01	0.03
		СО	6.01	26.33
		SO <sub>2</sub>	1.00	4.40
		cos	0.11	0.46
-		•	<u> </u>	<u> </u>

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	PF	3.04	13.32
	HF	2.01	8.81
Roof Monitor 7-3	РМ	9.17	40.16
T dunc 1	PM <sub>10</sub>	5.32	23.28
	PM <sub>2.5</sub>	2.57	11.74
	NO <sub>x</sub>	0.01	0.03
	со	6.01	26.33
	SO <sub>2</sub>	1.00	4.40
	cos	0.11	0.46
	PF	3.04	13.32
	HF	2.01	8.81
Roof Monitor 7-4 Potline 7	РМ	9.17	40.16
	PM <sub>10</sub>	5.32	23.28
	PM <sub>2.5</sub>	2.57	11.24
	NO <sub>x</sub>	0.01	0.03
	со	6.01	26.33
	SO <sub>2</sub>	1.00	4.40
	cos	0.11	0.46
	PF	3.04	13.32
	HF	2.01	8.81
Potline 7 CAP		81.75	358.05
(Includes 4 Roof Monitors and 12 Scrubbers EPNs 10G1 thru 10G12 and F10G-1 thru F10G-4)		66.33	290.53
		39.61	173.50
		267.80	1172.94
		27.90	122.18
		12.88	56.41
	Roof Monitor 7-3 Potline 7  Roof Monitor 7-4 Potline 7  Ionitors and 12 Scrubbers hru 10G12	PF	HF   2.01

		HF	9.05	39.65
		NO <sub>x</sub>	1.36	5.94
		СО	1603.10	7021.56
10G13	Reacted Alumina Baghouse Stack - Potline	РМ	0.03	0.13
	7	PM <sub>10</sub>	0.03	0.13
		PM <sub>2.5</sub>	0.02	0.08
		PF	<0.01	<0.01
10G14	Reacted Alumina Baghouse Stack - Potline	РМ	0.03	0.13
	7	PM <sub>10</sub>	0.03	0.13
		PM <sub>2.5</sub>	0.02	0.08
		PF	<0.01	<0.01
10H1	Fluid Bed Reactor 81E Potline 8 (3 Stacks)	РМ	3.31	14.52
	rotime o (o otacks)	PM <sub>10</sub>	3.31	14.52
		PM <sub>2.5</sub>	2.16	9.45
		NO <sub>x</sub>	0.11	0.49
		со	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.07	0.31
		HF	0.18	0.78
10H2	Fluid Bed Reactor 82E Potline 8 (3 Stacks)	РМ	3.31	14.52
	Totalite o (o otacks)	PM <sub>10</sub>	3.31	14.52
		PM <sub>2.5</sub>	2.16	9.45
		NO <sub>x</sub>	0.11	0.49
		со	131.59	576.35
		SO <sub>2</sub>	21.98	96.28

I .			abic Emission rates	<u> </u>
		cos	2.29	10.03
		PF	0.07	0.31
		HF	0.18	0.78
10H3	Fluid Bed Reactor 83E Potline 8 (3 Stacks)	PM	3.31	14.52
	i cumo o (o cuacio)	PM <sub>10</sub>	3.31	14.52
		PM <sub>2.5</sub>	2.16	9.45
		NO <sub>x</sub>	0.11	0.49
		со	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.07	0.31
		HF	0.18	0.78
10H4	Fluid Bed Reactor 84E Potline 8 (3 Stacks)	РМ	3.31	14.52
	ounie o (o otaolo)	PM <sub>10</sub>	3.31	14.52
		PM <sub>2.5</sub>	2.16	9.45
		NO <sub>x</sub>	0.11	0.49
		со	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.07	0.31
		HF	0.18	0.78
10H5	Fluid Bed Reactor 85E Potline 8 (3 Stacks)	PM	3.31	14.52
	. James o (o Judoko)	PM <sub>10</sub>	3.31	14.52
		PM <sub>2.5</sub>	2.16	9.45
		NO <sub>x</sub>	0.11	0.49
		СО	131.59	576.35

		Waximam Allowable E		
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.07	0.31
		HF	0.18	0.78
10H6	Fluid Bed Reactor 86E Potline 8 (3 Stacks)	PM	3.31	14.52
		PM <sub>10</sub>	3.31	14.52
		PM <sub>2.5</sub>	2.16	9.45
		NO <sub>x</sub>	0.11	0.49
		СО	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.07	0.31
		HF	0.18	0.78
10H7	Fluid Bed Reactor 81W Potline 8 (3 Stacks)	РМ	3.31	14.52
		PM <sub>10</sub>	3.31	14.52
		PM <sub>2.5</sub>	2.16	9.45
		NO <sub>x</sub>	0.11	0.49
		СО	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.07	0.31
		HF	0.18	0.78
10H8	Fluid Bed Reactor 82W (3 Stacks) Potline 8	РМ	3.31	14.52
		PM <sub>10</sub>	3.31	14.52
		PM <sub>2.5</sub>	2.16	9.45
		NO <sub>x</sub>	0.11	0.49

1			lbic Emission rates	
		СО	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.07	0.31
		HF	0.18	0.78
10H9	Fluid Bed Reactor 83W (3 Stacks)	PM	3.31	14.52
	Potline 8	PM <sub>10</sub>	3.31	14.52
		PM <sub>2.5</sub>	2.16	9.45
		NO <sub>x</sub>	0.11	0.49
		СО	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.07	0.31
		HF	0.18	0.78
10H10	Fluid Bed Reactor 84W (3 Stacks)	PM	3.31	14.52
	Potline 8	PM <sub>10</sub>	3.31	14.52
		PM <sub>2.5</sub>	2.16	9.45
		NO <sub>x</sub>	0.11	0.49
		СО	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.07	0.31
		HF	0.18	0.78
10H11	Fluid Bed Reactor 85W (3 Stacks)	PM	3.31	14.52
	Potline 8	PM <sub>10</sub>	3.31	14.52
		PM <sub>2.5</sub>	2.16	9.45

ı	Linission Sources	THE WITTER THE T	abic Emission rates	
		NO <sub>x</sub>	0.11	0.49
		СО	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.07	0.31
		HF	0.18	0.78
10H12	Fluid Bed Reactor 86W (3 Stacks)	PM	3.31	14.52
	Potline 8	PM <sub>10</sub>	3.31	14.52
		PM <sub>2.5</sub>	2.16	9.45
		NO <sub>x</sub>	0.11	0.49
		СО	131.59	576.35
		SO <sub>2</sub>	21.98	96.28
		cos	2.29	10.03
		PF	0.07	0.31
		HF	0.18	0.78
F10H-1	Roof Monitor 8-1 Potline 8	PM	9.17	40.16
		PM <sub>10</sub>	5.32	23.28
		PM <sub>2.5</sub>	2.57	11.24
		NO <sub>x</sub>	0.01	0.02
		СО	6.01	26.33
		SO <sub>2</sub>	1.00	4.40
		cos	0.11	0.46
		PF	2.37	10.38
		HF	1.72	7.52
F10H-2	Roof Monitor 8-2 Potline 8	РМ	9.17	40.16
	Pullile o	PM <sub>10</sub>	5.32	23.28

Emission Sources - Maximum Allowable Emission Ra
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1	Emission Sources	- <mark>Maximum Allowa</mark> i	DIE EITIISSION Rates	
		PM <sub>2.5</sub>	2.57	11.24
		NO <sub>x</sub>	0.01	0.02
		СО	6.01	26.33
		SO <sub>2</sub>	1.00	4.40
		cos	0.11	0.46
		PF	2.37	10.38
		HF	1.72	7.52
F10H-3	Roof Monitor 8-3 Potline 8	PM	9.17	40.16
	T ounte o	PM <sub>10</sub>	5.32	23.28
		PM <sub>2.5</sub>	2.57	11.24
		NO <sub>x</sub>	0.01	0.02
		СО	6.01	26.33
		SO <sub>2</sub>	1.00	4.40
		cos	0.11	0.46
		PF	2.37	10.38
		HF	1.72	7.52
F10H-4	Roof Monitor 8-4 Potline 8	PM	9.17	40.16
		PM <sub>10</sub>	5.32	23.28
		PM <sub>2.5</sub>	2.57	11.24
		NO <sub>x</sub>	0.01	0.02
		СО	6.01	26.33
		SO <sub>2</sub>	1.00	4.40
		cos	0.11	0.46
		PF	2.37	10.38
		HF	1.72	7.52
Potline 8 CAP		PM	76.46	334.89
Project Number: 227860				

		PM <sub>10</sub>	61.04	267.36
		PM <sub>2.5</sub>	36.17	158.41
		SO <sub>2</sub>	267.80	1172.94
		cos	27.90	122.18
		PF	10.32	45.20
		HF	9.01	39.47
	NO <sub>x</sub>		1.36	5.94
		СО	1603.10	7021.56
10H13	Reacted Alumina Baghouse Stack	PM	0.07	0.32
	Potline 8	PM <sub>10</sub>	0.07	0.32
		PM <sub>2.5</sub>	0.05	0.21
		PF	<0.01	0.08
10H14	Reacted Alumina Baghouse Stack Potline 8	PM	0.07	0.32
		PM <sub>10</sub>	0.07	0.32
		PM <sub>2.5</sub>	0.05	0.21
		PF	<0.01	0.08
11A	Lime Storage Baghouse Stack	РМ	0.14	0.16
		PM <sub>10</sub>	0.14	0.16
		PM <sub>2.5</sub>	0.07	0.08
13B	Furnace 5 Stack	РМ	5.67	24.84
		PM <sub>10</sub>	2.84	12.42
		PM <sub>2.5</sub>	2.84	12.42
		NO <sub>x</sub>	3.44	7.27
		СО	1.35	5.92
		SO <sub>2</sub>	0.01	0.04
		VOC	0.09	0.39

1	I Emission Cources	Waxiiiiaiii 7 (ilovi	able Ellission Rales	
		F <sub>2</sub>	3.35	1.75
		Cl <sub>2</sub>	1.10	0.49
		HCI	3.08	13.49
13C	Furnace 6 Stack	PM	5.67	24.84
		PM <sub>10</sub>	2.84	12.42
		PM <sub>2.5</sub>	2.84	12.42
		NO <sub>x</sub>	3.44	7.27
		со	1.35	5.92
		SO <sub>2</sub>	0.96	0.04
		VOC	0.09	0.39
		F <sub>2</sub>	3.35	1.75
		Cl <sub>2</sub>	1.10	0.49
		HCI	3.08	13.49
13D	Holding Furnace 7 Stack	PM	5.67	24.84
		PM <sub>10</sub>	2.84	12.42
		PM <sub>2.5</sub>	2.84	12.42
		NO <sub>x</sub>	1.68	3.55
		СО	0.66	2.89
		SO <sub>2</sub>	0.01	0.03
		VOC	0.04	0.19
		F <sub>2</sub>	3.35	1.75
		Cl <sub>2</sub>	1.10	0.49
		HCI	3.08	13.49
V13J	Preheat Oven 1 Stack	PM	0.29	1.26
		PM <sub>10</sub>	0.29	1.26
		PM <sub>2.5</sub>	0.29	1.26

Linission Sources		ovable Emission rates	
	NO <sub>x</sub>	8.08	17.07
	СО	3.17	13.89
	SO <sub>2</sub>	0.02	0.10
	VOC	0.21	0.91
Preheat Oven 2 Stack	PM	0.29	1.26
	PM <sub>10</sub>	0.29	1.26
	PM <sub>2.5</sub>	0.29	1.26
	NO <sub>x</sub>	8.08	17.07
	СО	3.17	13.89
	SO <sub>2</sub>	0.02	0.10
	VOC	0.21	0.91
Furnace 1 Stack	PM	0.10	0.43
	PM <sub>10</sub>	0.10	0.43
	PM <sub>2.5</sub>	0.10	0.43
	NO <sub>x</sub>	2.75	5.80
	СО	1.08	4.72
	SO <sub>2</sub>	0.01	0.03
	VOC	0.07	0.31
	F <sub>2</sub>	3.35	1.75
Furnace 2 Stack	PM	0.10	0.43
	PM <sub>10</sub>	0.10	0.43
	PM <sub>2.5</sub>	0.10	0.43
	NO <sub>x</sub>	2.75	5.80
	СО	1.08	4.72
	SO <sub>2</sub>	0.01	0.03
	VOC	0.07	0.31
	Furnace 1 Stack	NO <sub>x</sub>	NO <sub>x</sub>   8.08   CO   3.17   SO <sub>2</sub>   0.02   VOC   0.21

İ	Emission Sources - Maximum Allowable Emission Rates			
		F <sub>2</sub>	3.35	1.75
2A	Coke Milling, Screening, and Transfer Baghouse	РМ	1.90	8.28
	Stack	PM <sub>10</sub>	1.90	8.28
		PM <sub>2.5</sub>	0.99	4.32
2C	Coke Milling, Screening, and Transfer Baghouse	РМ	1.02	4.46
	Stack	PM <sub>10</sub>	1.02	4.46
		PM <sub>2.5</sub>	0.53	2.33
		F <sub>2</sub>	<0.01	<0.01
2E	Coke Milling, Screening, and Transfer Baghouse	РМ	0.12	0.56
	Stack	PM <sub>10</sub>	0.12	0.56
		PM <sub>2.5</sub>	0.06	0.29
2F	Coke Milling, Screening, and Transfer Baghouse Stack	РМ	0.60	2.55
		PM <sub>10</sub>	0.60	2.55
		PM <sub>2.5</sub>	0.31	1.33
2G	Ball Mill CC30 Baghouse Stack	РМ	0.38	1.67
		PM <sub>10</sub>	0.38	1.67
		PM <sub>2.5</sub>	0.20	0.87
2H	Ball Mill CC60 Baghouse Stack	РМ	0.07	0.29
		PM <sub>10</sub>	0.07	0.29
		PM <sub>2.5</sub>	0.04	0.15
9C	Belt Conveyor 42A Baghouse Stack	РМ	0.06	0.26
		PM <sub>10</sub>	0.06	0.26
		PM <sub>2.5</sub>	0.04	0.17
		PF	<0.01	<0.01
9D	Transfer Point 42B Baghouse Stack	PM	0.12	0.52
	Dag. 10000 Otdon	PM <sub>10</sub>	0.12	0.52

İ	Emission Sources - Maximum Allowable Emission Rates			
		PM <sub>2.5</sub>	0.08	0.34
		PF	<0.01	<0.01
9E	Transfer Point 42C Baghouse Stack	РМ	0.12	0.52
	bagnouse Stack	PM <sub>10</sub>	0.12	0.52
		PM <sub>2.5</sub>	0.08	0.34
		PF	<0.01	0.01
9G2	Storage Tank 19H Baghouse Stack	РМ	0.05	0.21
	Bugnouse Stack	PM <sub>10</sub>	0.05	0.21
		PM <sub>2.5</sub>	0.03	0.14
		PF	<0.01	0.01
9G3	Storage Tank 19W Baghouse Stack	РМ	0.08	0.35
		PM <sub>10</sub>	0.08	0.35
		PM <sub>2.5</sub>	0.05	0.23
		PF	<0.01	0.01
9G3A	Day Tank 19X Baghouse Stack	РМ	0.08	0.36
		PM <sub>10</sub>	0.08	0.36
		PM <sub>2.5</sub>	0.05	0.23
		PF	<0.01	0.01
9G4-1	Reacted Alumina Tank 21R Baghouse Stack	РМ	0.02	0.07
		PM <sub>10</sub>	0.02	0.07
		PM <sub>2.5</sub>	0.01	0.05
		PF	<0.01	<0.01
9G4-2	Reacted Alumina Tank 21R Baghouse Stack	PM	0.04	0.18
	ZIN Bagilouse Stack	PM <sub>10</sub>	0.04	0.18
		PM <sub>2.5</sub>	0.03	0.12
		PF	<0.01	<0.01

	Emission Source			
9G5	Storage Tank 129E Baghouse Stack	РМ	0.04	0.19
		PM <sub>10</sub>	0.04	0.19
		PM <sub>2.5</sub>	0.03	0.12
		PF	<0.01	<0.01
9G6	Day Tank 129G Baghouse	РМ	0.03	0.15
	Stack	PM <sub>10</sub>	0.03	0.15
		PM <sub>2.5</sub>	0.02	0.10
		PF	<0.01	<0.01
9G7-1	Alumina Tank 129M Baghouse Stack	PM	0.04	0.19
	Bugnouse Stack	PM <sub>10</sub>	0.14	0.19
		PM <sub>2.5</sub>	0.03	0.12
		PF	<0.01	<0.01
9G7-2	Alumina Tank 129R Baghouse Stack	PM	0.04	0.16
		PM <sub>10</sub>	0.04	0.16
		PM <sub>2.5</sub>	0.03	0.10
		PF	<0.01	<0.01
9G8	Alumina Tank 129W Baghouse Stack	PM	0.06	0.26
		PM <sub>10</sub>	0.06	0.26
		PM <sub>2.5</sub>	0.04	0.17
		PF	<0.01	<0.01
9G9	Day Tank 129X Baghouse Stack	PM <sub>0</sub>	0.04	0.19
		PM <sub>10</sub>	0.04	0.19
		PM <sub>2.5</sub>	0.03	0.12
		PF	<0.01	0.01
9G10	Storage Tank 133E Baghouse Stack	РМ	0.04	0.15
	DayHouse Stack	PM <sub>10</sub>	0.04	0.15
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İ	Emission Sources - Maximum Allowable Emission Rates			
		PM <sub>2.5</sub>	0.03	0.10
		PF	<0.01	<0.01
9G11	Day Tank 133G Baghouse Stack	PM	0.04	0.19
	Dagnouse Stack	PM <sub>10</sub>	0.04	0.19
		PM <sub>2.5</sub>	0.03	0.12
		PF	<0.01	0.01
9G12-1	Storage Tank 133M Baghouse Stack	PM	0.04	0.16
	Bagnouse Stack	PM <sub>10</sub>	0.04	0.16
		PM <sub>2.5</sub>	0.03	0.10
		PF	<0.01	<0.01
9G12-2	Storage Tank 133M Baghouse Stack	PM	0.04	0.18
		PM <sub>10</sub>	0.04	0.18
		PM <sub>2.5</sub>	0.03	0.12
		PF	<0.01	<0.01
9G13	Storage Tank 133W Baghouse Stack	PM	0.04	0.17
		PM <sub>10</sub>	0.04	0.17
		PM <sub>2.5</sub>	0.03	0.11
		PF	<0.01	0.01
9G14	Storage Tank 133X Baghouse Stack	PM	0.03	0.15
		PM <sub>10</sub>	0.03	0.15
		PM <sub>2.5</sub>	0.02	0.10
		PF	<0.01	0.01
9G15-1	Reacted Alumina Tank 133R Baghouse Stack	РМ	0.04	0.17
	1001 Day110u3e Stack	PM <sub>10</sub>	0.04	0.17
		PM <sub>2.5</sub>	0.03	0.11
		PF	<0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

	Emission Sources -			
9G15-2	Reacted Alumina Tank 133R Baghouse Stack	PM	0.04	0.17
		PM <sub>10</sub>	0.04	0.17
		PM <sub>2.5</sub>	0.03	0.11
		PF	<0.01	0.01
9G16-1	Reacted Alumina Tank 129R Baghouse Stack	PM	0.04	0.17
	1201 Bagnouse Stack	PM <sub>10</sub>	0.04	0.17
		PM <sub>2.5</sub>	0.03	0.11
		PF	<0.01	0.01
9G16-2	Reacted Alumina Tank 129R Baghouse Stack	PM	0.04	0.17
	1231 Bugnouse Stack	PM <sub>10</sub>	0.04	0.17
		PM <sub>2.5</sub>	0.03	0.11
		PF	<0.01	0.01
9G17	Air Slide 9T21 Baghouse Stack	PM	0.21	0.54
		PM <sub>10</sub>	0.21	0.54
		PM <sub>2.5</sub>	0.14	0.35
		PF	<0.01	0.01
9G18	Elevator Tower Line 5 Baghouse Stack	PM	0.05	0.22
		PM <sub>10</sub>	0.05	0.22
		PM <sub>2.5</sub>	0.03	0.14
		PF	0.01	0.01
9G19	41 Lower Conveyor Belt Vent (5)	PM	0.39	1.70
		PM <sub>10</sub>	0.39	1.70
		PM <sub>2.5</sub>	0.06	0.26
		PF	0.01	0.04
9G20	41 Upper Conveyor Belt Vent (5)	PM	0.08	0.34
	Verit (0)	PM <sub>10</sub>	0.08	0.34
	•	•	•	

i	Ellission Sources -	- Waxiiiiuiii Allov	vable Emission Rates	
		PM <sub>2.5</sub>	0.01	0.05
		PF	<0.01	0.01
9G25	Potline 1 Ore Fill Station Baghouse Stack	РМ	0.19	0.81
	Bagnouse Stack	PM <sub>10</sub>	0.19	0.81
		PM <sub>2.5</sub>	0.12	0.53
9G26	Potline 2 Ore Fill Station Baghouse Stack	РМ	0.19	0.81
	Bagnouse Stack	PM <sub>10</sub>	0.19	0.81
		PM <sub>2.5</sub>	0.12	0.53
9G27	Potline 3 Ore Fill Station Baghouse Stack	PM	0.19	0.81
	DayHouse Stack	PM <sub>10</sub>	0.19	0.81
		PM <sub>2.5</sub>	0.12	0.53
9G28	Potline 4 Ore Fill Station Baghouse Stack	PM	0.19	0.81
		PM <sub>10</sub>	0.19	0.81
		PM <sub>2.5</sub>	0.12	0.53
9OREVENT	Ore Tank Vents (5)	PM	0.01	0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
4A	Steam Boiler No. 1 Stack	PM	0.29	1.26
		PM <sub>10</sub>	0.29	1.26
		PM <sub>2.5</sub>	0.29	1.26
		NO <sub>x</sub>	8.08	17.07
		со	3.17	13.89
		SO <sub>2</sub>	0.02	0.10
		VOC	0.21	0.91
4B	Steam Boiler No. 2 Stack	РМ	0.29	1.26
		PM <sub>10</sub>	0.29	1.26

Emission Sources - Maximum Allor	wable Emission Rates
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i	EIIIISSIOII Sources	- Waxiiiiuiii Aii	owable Emission Rates	
		PM <sub>2.5</sub>	0.29	1.26
		NO <sub>x</sub>	8.08	17.07
		СО	3.17	13.89
		SO <sub>2</sub>	0.02	0.10
		VOC	0.21	0.91
7D	Induction Furnace Baghouse Stack	РМ	1.33	5.81
	Bugnouse Stack	PM <sub>10</sub>	1.33	5.81
		PM <sub>2.5</sub>	0.69	3.03
7F	Anode Cleaning-General Baghouse Stack	РМ	0.75	3.29
	Bugnouse Stack	PM <sub>10</sub>	0.75	3.29
		PM <sub>2.5</sub>	0.39	1.72
7G	Anode Cleaning-General Baghouse Stack	РМ	0.75	3.29
	Bugnouse Stack	PM <sub>10</sub>	0.075	3.29
		PM <sub>2.5</sub>	0.39	1.72
8D	Heat, Steam, and Power Boiler Stack	РМ	0.02	0.10
	Boiler Stack	PM <sub>10</sub>	0.02	0.10
		PM <sub>2.5</sub>	0.02	0.10
		NO <sub>x</sub>	0.63	1.33
		со	0.25	1.08
		SO <sub>2</sub>	<0.01	0.01
		VOC	0.02	0.07
8E	Heat, Steam, and Power Boiler Stack	РМ	0.03	0.15
	Builer Stack	PM <sub>10</sub>	0.03	0.15
		PM <sub>2.5</sub>	0.03	0.15
		NO <sub>x</sub>	0.94	2.00
		со	0.37	1.62
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i	Lillission Sources -	Maximum And	DWable Ellission Rales	
		SO <sub>2</sub>	<0.01	0.02
		VOC	0.02	0.11
F131	Crucible Preheater Stack	РМ	0.03	0.10
		PM <sub>10</sub>	0.03	0.10
		PM <sub>2.5</sub>	0.03	0.10
		NO <sub>x</sub>	0.63	1.33
		со	0.25	1.09
		SO <sub>2</sub>	<0.01	0.01
		voc	0.02	0.08
F15	Skim Storage Room Vent (5)	РМ	0.02	0.10
	(5)	PM <sub>10</sub>	0.02	0.10
		PM <sub>2.5</sub>	<0.01	0.02
F1A	Coke and Pitch Unloading (5)	РМ	0.05	0.03
		PM <sub>10</sub>	0.05	0.03
		PM <sub>2.5</sub>	0.01	<0.01
F1B	Coke Unloading (5)	РМ	0.05	<0.01
		PM <sub>10</sub>	0.05	<0.01
		PM <sub>2.5</sub>	0.01	<0.01
F9A	Ore Unloading Station (5)	РМ	0.01	0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
V8C1	Potling Mixing Cathode Material Mixing (5)	РМ	0.01	<0.01
	Material Mixing (5)	PM <sub>10</sub>	0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
V8C2	Potling Mixing Cathode	PM	0.01	<0.01
	Material Mixing (5)	PM <sub>10</sub>	0.01	<0.01

•	Emission Sources - Maximum Allowable Emission Rates			
		PM <sub>2.5</sub>	<0.01	<0.01
F18	Building 80 Lab Emissions Vent (5)	IPA	-	0.30
		C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub>	-	0.06
		CH₃COCH₃	-	0.33
13FUG1	Ingot Plant Fugitives (5) Ingot Plant Roof Vents	PM	0.06	0.24
	inger lancroor vente	PM <sub>10</sub>	0.06	0.24
		PM <sub>2.5</sub>	0.06	0.24
		NO <sub>x</sub>	0.72	3.17
		СО	0.61	2.66
		SO <sub>2</sub>	0.01	0.02
		VOC	0.042	0.17
		Cl <sub>2</sub>	1.80	0.25
		HCI	2.76	0.07
F11C	Lime Unloading (5)	PM	0.01	<0.01
		PM <sub>10</sub>	0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
9CONV41	Conveyor Belt 41 (5)	PM	0.17	0.36
		PM <sub>10</sub>	0.08	0.17
		PM <sub>2.5</sub>	0.01	0.03
9CONV42	Conveyor Belt 42 (5)	PM	0.23	0.49
		PM <sub>10</sub>	0.11	0.24
		PM <sub>2.5</sub>	0.02	0.04
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<sup>(1)</sup> Emission point identification - either specific equipment designation or emission point number from plot plan.

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

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

<sup>(2)</sup> Specific point source name. For fugitive sources, use area name or fugitive source name.

PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as

represented

PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as

represented

PM<sub>2.5</sub> - 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 - acetone

COS - carbonyl sulfide

Cl<sub>2</sub> - 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.

(7) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date July 2, 2015