

Raw Mill On									
Dec-06									
	Particle Bound	Particle Bound	Oxidized	Elemental	Oxidized	Elemental	Total	Total	
	lb/hr	g/s	lb/hr	lb/hr	g/s	g/s	lb/hr	g/s	
A1 OH	0.0308	0.0039	0.0829	0.24	0.0302	0.0302	0.354	0.045	
C1 OH	1.94E-03	0.0002	0.0934	8.87E-03	0.0011	0.0011	0.104	0.013	
A1 M324	0.096	0.0121		0.174		0.022	0.270	0.034	
A2M324	0.075	0.0094		0.243		0.031	0.318	0.040	
C2M324	0.026	0.0032		0.100		0.013	0.126	0.016	

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	lb/hr	g/s	lb/hr	lb/hr	g/s	g/s	lb/hr	g/s	
B1 OH	1.33E-03	0.0002		1.22		0.11	0.0139	0.0139	1.34 0.169
B2 OH	1.34E-03	0.0002		1.8		0.0278	0.0035	0.0035	1.83 0.231
B1M324	0.082		0.0104		1.464		0.184		1.546 0.195
B2M324	0.001		0.0001		1.484		0.187		1.485 0.187

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	lb/hr	g/s	lb/hr	lb/hr	g/s	g/s	lb/hr	g/s	
Run 201 M324	0.006	0.0008		0.174		0.022	0.180	0.0227	
Run 202 M324	0.003	0.0004		0.098		0.012	0.101	0.0177	
Run 101 OH	0.030	0.0037	0.045	0.054	0.0067	0.0067	0.128	0.0162	
Run 101 FAMS	0.004	0.0005	0.041	0.072	0.0091	0.0091	0.117	0.0147	
Run 104 FAMS	0.000	0.0000	0.036	0.033	0.0042	0.0042	0.069	0.0087	
Run 104 OH	0.011	0.0014	0.046	0.031	0.0039	0.0039	0.089	0.0112	
Run 204 M324	0.001	0.0001		0.146		0.018	0.147	0.0185	
Run 205 M324	0.001	0.0001		0.099		0.012	0.100	0.0126	
Run 105 FAMS	0.001	0.0002	0.075	0.052	0.0066	0.0066	0.129	0.0163	
Run 106 FAMS	0.002	0.0002	0.077	0.070	0.0089	0.0089	0.149	0.0188	
Run 105 OH	0.008	0.0011	0.071	0.167	0.0210	0.0210	0.247	0.0311	

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	lb/hr	g/s	lb/hr	lb/hr	g/s	g/s	lb/hr	g/s	
Run 102 FAMS	0.002	0.0003		0.808		0.238	0.0300	0.0300	1.048 0.132
Run 203 M324	0.005	0.0006		1.021			0.129		1.026 0.129
Run 102 OH	0.126	0.0159	0.544		0.639		0.0805	0.0805	1.309 0.165
Run 103 FAMS	0.002	0.0002	0.882		0.037		0.0047	0.0047	0.921 0.116
Run 103 OH	0.326		0.0411		0.743		0.137	0.0173	1.206 0.152

Nov-01									
	Particle Bound	Particle Bound	Oxidized	Elemental	Oxidized	Elemental	Total	Total	
	lb/hr	g/s	lb/hr	lb/hr	g/s	g/s	lb/hr	g/s	
Run 1									0.9751 0.123
Run 2									1.1301 0.142
Run 3									1.0086 0.127

Averages									
	Particle Bound	Particle Bound	Oxidized	Elemental	Oxidized	Elemental	Total	Total	
	lb/hr	g/s	lb/hr	lb/hr	g/s	g/s	lb/hr	g/s	
Averages	0.0128	0.0016	0.0550	0.0781	0.0098	0.0098	0.144	0.01815	

Averages									
	Particle Bound	Particle Bound	Oxidized	Elemental	Oxidized	Elemental	Total	Total	
	lb/hr	g/s	lb/hr	lb/hr	g/s	g/s	lb/hr	g/s	
Averages	0.0988	0.0125	0.9359	0.1986	0.0250	0.0250	1.235	0.156	

Based on 85% raw mill on and 15% raw mill off
2006 Kiln Operated 7596 hours

Mercury Emission Factors				
	Particle Bound	Oxidized	Elemental	Total
Emission Factors (tons/yr)	0.0977	0.7043	0.3653	1.1688
Emission Factors (g/s)	0.0028	0.0203	0.0105	0.0336

Sep-06

Run	Particle Bound ug/dscm	Oxidized ug/dscm	Elemental ug/dscm	Total ug/dscm	Vol Flow Rate dscmm	Particle Bound g/hr	Oxidized g/hr	Elemental g/hr	Total g/hr	Particle Bound lb/hr	Oxidized lb/hr	Elemental lb/hr	Total lb/hr
Run 201 M324	11.1	318		329	4130.14	2.74	78.88		81.63	0.006	0.174		0.180
Run 202 M324	5.29	179		184	4130.14	1.31	44.32		45.63	0.003	0.098		0.101
Run 101 OH	54	83	98	235	4130.14	13.38	20.57	24.29	58.23	0.030	0.045	0.054	0.128
Run 101 FAMS	7.74	74.8	132	214	4130.14	1.92	18.54	32.63	53.10	0.004	0.041	0.072	0.117
Run 102 FAMS	4.47	1730	510	2244	3531.02	0.95	366.50	107.95	475.40	0.002	0.808	0.238	1.048
Run 203 M324	10.4	2187		2197	3531.02	2.20	463.31		465.51	0.005	1.021	0.000	1.026
Run 102 OH	270	1164	1368	2802	3531.02	57.20	246.61	289.83	593.64	0.126	0.544	0.639	1.309
Run 103 FAMS	3.41	1889	79.5	1972	3531.02	0.72	400.25	16.85	417.82	0.002	0.882	0.037	0.921
Run 103 OH	698	1591	294	2583	3531.02	147.88	337.07	62.29	547.24	0.326	0.743	0.137	1.206
Run 104 FAMS	0.33	65.29	60.8	126	4130.14	0.08	16.18	15.07	31.33	0.000	0.036	0.033	0.069
Run 104 OH	21	85	56	162	4130.14	5.20	21.06	13.88	40.14	0.011	0.046	0.031	0.089
Run 204 M324	1.56	267		269	4130.14	0.39	66.25		66.64	0.001	0.146		0.147
Run 205 M324	1.19	181		183	4130.14	0.29	44.94		45.24	0.001	0.099		0.100
Run 105 FAMS	2.62	138	95.9	236	4130.14	0.65	34.17	23.75	58.57	0.001	0.075	0.052	0.129
Run 106 FAMS	3.42	140	129	273	4130.14	0.85	34.81	31.95	67.60	0.002	0.077	0.070	0.149

	Vol Flow Rate, dscfm		Vol Flow Rate, dscfm
On	145,367	Off	123,494
On	146,525	Off	125,900
On	145,672		
Average	145,855		124,697
dscmm	4,130.1		3,531.0

Raw Mill On			
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	Particle Bound	Oxidized	Elemental	Total
	lb/hr	lb/hr	lb/hr	lb/hr
A1 OH	0.0308	0.0829	0.24	0.354
C1 OH	1.94E-03	0.0934	8.87E-03	0.104

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	Particle Bound	Oxidized	Elemental	Total
	lb/hr	lb/hr	lb/hr	lb/hr
Run 101 OH	0.030	0.045	0.054	0.128
Run 104 OH	0.011	0.046	0.031	0.089
Run 105 OH	0.008	0.071	0.167	0.247

Total	Particle Bound	Oxidized	Elemental	Total
	lb/hr	lb/hr	lb/hr	lb/hr
	0.082	0.339	0.500	0.922
	% of Total	% of Total	% of Total	
	8.9%	36.8%	54.2%	

Raw Mill Off			
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Dec-06				
	Particle Bound	Oxidized	Elemental	Total
	lb/hr	lb/hr	lb/hr	lb/hr
B1 OH	1.33E-03	1.22	0.11	1.34
B2 OH	1.34E-03	1.8	0.0278	1.83

Sep-06			
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	Particle Bound	Oxidized	Elemental	Total
	lb/hr	lb/hr	lb/hr	lb/hr
Run 102 OH	0.126	0.544	0.639	1.309
Run 103 OH	0.326	0.743	0.137	1.206

Total	Particle Bound	Oxidized	Elemental	Total
	lb/hr	lb/hr	lb/hr	lb/hr
	0.455	4.307	0.914	5.685
	% of Total	% of Total	% of Total	
	8.0%	75.8%	16.1%	