



Suwannee American Cement
P.O. Box 410
Branford, FL 32008-0410
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April 12, 2013

Syed Arif, P.E.
FDEP - Air Permitting
2600 Blair Stone Road, MS 5000
Tallahassee, Florida 32399-2400

Re: Permit 1210465-023-AC
Main Burner Pneumatic Alternative Fuel Feeding System
Shakedown Summary Report

Dear Mr. Arif,

Enclosed is the "Main Burner Pneumatic Alternative Fuel Feeding System Shakedown Summary Report". This report is being provided in compliance with Specific Condition 26 "Reports for Shakedown and AF Assessments" within 45 days of completion of the Main Burner Pneumatic Alternative Fuel Feeder System Shake Down period which ended on February 28, 2013.

If you have any questions or comments please contact me.

Sincerely,

A handwritten signature in black ink that reads "Krishna C. Cole". The signature is written in a cursive style.

Krishna C. Cole, P.E.
Environmental Manager

Cc. Tom Messer, Plant Manager
Dr. Max Lee, Koogler & Associates

Main Burner Alternate Fuel Feeder System Shakedown Summary Report

Suwannee American Cement Company
Branford, Suwannee County, Florida
Permit 1210465-023-AC

Prepared By: Krishna C. Cole, P.E.
Dated: April 12, 2013

Introduction

This report is provided in accordance with Specific Condition 26 of Suwannee American Cement's Title V Air Construction Permit Number 1210465-023-AC.

Suwannee American Cement notified the Department on August 24, 2012 that construction of the main burner pneumatic alternative fuel feeding system had been completed and that the equipment "Shakedown Period" had begun on August 10th, 2012. Due to process starts and stops the 90 day period lasted until February 28, 2013. This report is provided within 45 days of completion of the end of this shakedown period.

Specific Condition 26 (a):

"For a 24-hour period representing good operating practices and steady kiln operation, report: the representative analysis of the AF fired; hourly AF and fossil fuel firing rates; hourly clinker production; hourly CO (process monitor), NOx, SO2 and THC emissions data from the CEMS; the 6-minute block averages from the COMS; and the inlet temperature to main kiln baghouse (3-hour average). Identify the good operating practices resulting in steady kiln operation."

All Specific Condition 26 a. requested data is provided in Appendix A through F. Identification of good operating practices resulting in steady kiln operation is provided in this reports conclusions section.

Specific Condition 26 (a):

"Emissions from the initial AF assessment of a new fuel may be excluded from the report requiring a comparison of actual-to-baseline emissions (Rules 62 212.300(1)(e) and 62-210.370, F.A.C.) since operators are still establishing good operating practices and the AF will not have been available for the full calendar year. To exclude emissions data collected during an authorized shakedown and/or AF assessment period from this report, the permittee shall submit the following information for: total clinker production; fossil fuel fired; AF fired; total CO, NOx, SO2 and THC emissions (tons)."

This information is provided in Table 1 below:

Shake Down			Main Burner Feeder		Main Burner Pneumatic Alternative Fuel Feeder System Shakedown Period Mass Emissions			
Start			8/10/2012					
End			2/28/2013					
			Qty.	Units	Month	THC [tons]	NOX [tons]	SO2 [tons]
Alt Fuel Feeder "Operating" Days			90	days	^a Aug-12	2.94	67.0	1.02
Kiln Production Days			99	days	Sep-12	0.00	0.0	0.01
Clinker Production (Operating)			203,531	tons	Oct-12	1.61	26.0	0.39
Clinker Production (Period)			208,522	tons	Nov-12	2.12	35.0	0.85
Coal Consumed (Operating)			6,710	tons	Dec-12	1.46	30.6	0.95
Coal Consumed (Period)			7,048	tons	Jan-13		0.0	0.00
Natural Gas (Operating)			342,219	MMBtu (LHV)	Feb-13	1.82	29.9	1.15
Natural Gas (Period)			392,854	MMBtu (LHV)	Total	9.94	188.5	4.36
Alt Fuel Consumed (Operating)			3196	tons	^a Partial Month			
*Alt Fuel Consumed (Period)			9604	tons				

*During this period both the main burner and calciner feeder operated.

Table 1: Specific Condition 26 (b) information for exclusion of emissions data.

Conclusions

SAC has discovered that best practice for any alternative fuel system can be easy to state, but more difficult to implement. An alternative fuel system at a cement kiln process that achieves best practice will provide a dry, physically and chemically consistent, high energy material at a steady and predictable pace. However, this can prove to be challenging especially at the early stages of implementing a new system. During this equipment shakedown, Suwannee American Cement (SAC) identified several key areas that have already helped improve the alternative fuel system and also should insure improved operations in the future. These key areas include: automation, material sourcing, planned maintenance, material appropriate shredding equipment, and covered storage capacity. Despite the considerable challenge, SAC remains committed to replacing traditional fuels such as coal and petcoke with clean recovered energy sources.

Appendix A. Hourly Process Data

Suwannee American Cement - Process Data									
Start Time	U2F01 Alt Fuel - Calciner tons/hr	U3F01 Alt Fuel - Main tons/hour	S1F02 Coal - Main tons/hr	S1F03 Coal- Calciner tons/hr	K1F19 Gas - Main ft3/min	K1F18 Gas - Calciner ft3/min	K1A02 PH exit CO ppm	K1A04 Post Combust CO ppm	K1A06 Kiln inlet CO ppm
2/19/13 12:00	4.50	2.01	1.51	0.51	92,661	90,937	262	456	36
2/19/13 13:00	4.49	2.20	1.51	0.51	100,261	92,879	286	903	28
2/19/13 14:00	4.19	2.18	1.51	0.50	102,117	83,502	322	426	20
2/19/13 15:00	4.53	2.22	1.51	0.51	100,260	80,190	325	312	13
2/19/13 16:00	4.93	2.51	1.51	0.51	96,166	80,016	299	368	5
2/19/13 17:00	4.86	2.50	1.51	0.50	95,804	85,040	288	318	-3
2/19/13 18:00	4.93	2.48	1.51	0.51	97,451	81,983	301	431	-6
2/19/13 19:00	4.98	2.50	1.51	0.51	102,991	80,422	274	449	-4
2/19/13 20:00	4.82	2.33	1.51	0.51	104,744	87,419	203	212	-2
2/19/13 21:00	4.95	2.47	1.51	0.50	103,263	90,435	180	269	0
2/19/13 22:00	4.85	2.50	1.51	0.50	104,024	88,510	207	389	2
2/19/13 23:00	4.73	1.49	1.51	0.51	122,685	84,674	211	400	4
2/20/13 0:00	4.91	0.01	1.52	0.50	145,334	79,742	186	279	6
2/20/13 1:00	4.90	0.01	1.52	0.51	132,459	89,809	140	191	8
2/20/13 2:00	4.94	0.59	1.52	0.50	123,554	90,145	226	236	7
2/20/13 3:00	4.97	2.20	1.52	0.50	107,981	85,792	151	690	4
2/20/13 4:00	4.98	2.20	1.51	0.50	113,089	79,190	130	238	2
2/20/13 5:00	4.93	2.42	1.51	0.51	109,591	81,109	148	178	-1
2/20/13 6:00	4.91	2.48	1.51	0.51	108,478	80,704	204	199	-4
2/20/13 7:00	4.99	2.47	1.51	0.51	109,141	78,439	172	212	-7
2/20/13 8:00	4.95	2.36	1.51	0.50	111,418	72,793	159	193	-10
2/20/13 9:00	4.96	2.50	1.51	0.50	109,086	73,925	188	287	-13
2/20/13 10:00	4.95	2.50	1.51	0.50	109,597	67,587	154	248	-13
2/20/13 11:00	4.95	2.51	1.51	0.50	109,449	60,351	83	208	-12
Average	4.84	2.07	1.51	0.51	108,817	81,900	212	337	2
Maximum	4.99	2.51	1.52	0.51	145,334	92,879	325	903	36
Minimum	4.19	0.01	1.51	0.50	92,661	60,351	83	178	-13

Appendix B. Hourly Continuous Emissions Monitoring Data

Suwannee American Cement - CEMS Data

Start Time	Clink Prod tons	Feed tons/hr	NOx Mass Rate lb/hr	NOx Prod Rate lb/ton	NOx Measured ppm wet	SO2 Mass Rate lb/hr	SO2 Prod Rate lb/ton	SO2 Measured ppm wet	THC Mass Rate lb/hr	THC Prod Rate lb/ton	THC Measured ppm wet	THC Corrected ppmv
2/19/13 12:00	108.6	180.0	202.9	1.87	150.4	8.53	0.079	4.54	6.84	0.063	5.29	7.46
2/19/13 13:00	108.3	179.6	153.0	1.41	112.5	8.65	0.080	4.57	7.65	0.071	5.88	8.04
2/19/13 14:00	105.6	175.0	224.3	2.13	160.4	8.50	0.081	4.37	7.71	0.073	5.76	8.05
2/19/13 15:00	105.5	175.0	211.5	2.00	150.6	8.50	0.081	4.34	6.85	0.065	5.08	7.22
2/19/13 16:00	106.5	176.5	228.6	2.15	161.2	8.60	0.081	4.35	7.58	0.071	5.58	8.00
2/19/13 17:00	106.7	176.9	230.8	2.16	161.9	8.25	0.077	4.15	7.67	0.072	5.61	7.99
2/19/13 18:00	104.8	173.8	136.5	1.30	95.4	8.04	0.077	4.04	6.99	0.067	5.10	7.36
2/19/13 19:00	102.7	170.2	122.1	1.19	85.5	7.71	0.075	3.87	6.53	0.064	4.77	6.87
2/19/13 20:00	106.2	176.1	251.7	2.37	176.2	8.03	0.076	4.03	8.02	0.075	5.84	8.29
2/19/13 21:00	108.5	179.9	236.7	2.18	164.6	7.65	0.070	3.82	8.20	0.076	5.95	8.43
2/19/13 22:00	108.5	180.0	162.5	1.50	113.2	7.51	0.069	3.75	7.40	0.068	5.38	7.68
2/19/13 23:00	106.5	176.6	170.8	1.60	117.8	7.78	0.073	3.86	7.25	0.068	5.22	7.50
2/20/13 0:00	107.2	177.8	380.2	3.55	262.4	8.80	0.082	4.36	7.84	0.073	5.65	8.13
2/20/13 1:00	109.8	182.1	283.0	2.58	197.4	8.16	0.074	4.09	7.33	0.067	5.34	7.67
2/20/13 2:00	109.8	182.1	213.9	1.95	149.3	8.36	0.076	4.19	7.17	0.065	5.22	7.57
2/20/13 3:00	108.0	179.1	67.6	0.63	47.1	8.82	0.082	4.40	6.19	0.057	4.49	6.56
2/20/13 4:00	105.6	175.1	154.6	1.46	107.6	9.55	0.090	4.77	6.33	0.060	4.59	6.80
2/20/13 5:00	106.1	175.9	206.6	1.95	143.4	10.02	0.094	4.98	6.51	0.061	4.70	6.96
2/20/13 6:00	106.8	177.2	232.2	2.17	160.9	10.05	0.094	5.00	6.64	0.062	4.80	7.18
2/20/13 7:00	107.3	178.0	231.3	2.15	175.7	9.39	0.088	5.07	7.90	0.074	6.30	8.89
2/20/13 8:00	107.4	178.1	174.1	1.68	140.5	6.82	0.066	3.95	7.46	0.072	6.27	9.22
2/20/13 9:00	107.3	178.0	226.4	2.11	163.5	6.50	0.061	3.38	6.90	0.071	5.77	7.81 U
2/20/13 10:00	107.3	178.0	208.0	1.94	150.6	6.17	0.057	3.21	6.81	0.063	5.14	7.46 U
2/20/13 11:00	107.4	178.1	179.4	1.67	129.1	5.34	0.050	2.76	6.59	0.061	4.94	7.33 U
Average	107.0	177.5	203.7	1.90	144.9	8.16	0.076	4.16	7.18	0.067	5.36	7.69
Maximum	109.8	182.1	380.2	3.55	262.4	10.05	0.094	5.07	8.20	0.076	6.30	9.22
Minimum	102.7	170.2	67.6	0.63	47.1	5.34	0.050	2.76	6.19	0.057	4.49	6.56

U - User data

Appendix C. Kiln Stack 6-Minute Average Continuous Opacity Monitoring Data

6-min report for 2/19/2013 12:00:00 PM to 2/20/2013 11:59:59 AM											
Device:OMD41_K Component:Opacity K (%)											
Day	H	M	0	6	12	18	24				
February, 2013											
2/19/2013	12	0	0.00	0.00	0.00	0.00	0.00	Avg.	0.00	Max.	0.00
		30	0.00	0.00	0.00	0.00	0.00	Mn.	0.00		
	13	0	0.00	0.01	0.00	0.00	0.00	Avg.	0.00	Max.	0.01
		30	0.00	0.00	0.00	0.00	0.00	Mn.	0.00		
	14	0	0.01	0.00	0.00	0.00	0.00	Avg.	0.00	Max.	0.01
		30	0.00	0.01	0.00	0.00	0.00	Mn.	0.00		
	15	0	0.00	0.00	0.00	0.01	0.00	Avg.	0.02	Max.	0.05
		30	0.02	0.05	0.03	0.04	0.01	Mn.	0.00		
	16	0	0.01	0.02	0.05	0.03	0.02	Avg.	0.03	Max.	0.07
		30	0.01	0.01	0.06	0.07	0.02	Mn.	0.01		
	17	0	0.04	0.03	0.05	0.06	0.09	Avg.	0.08	Max.	0.14
		30	0.11	0.08	0.09	0.10	0.14	Mn.	0.03		
	18	0	0.05	0.14	0.23	0.20	0.23	Avg.	0.20	Max.	0.26
		30	0.19	0.19	0.26	0.26	0.22	Mn.	0.05		
	19	0	0.21	0.45	0.67	0.70	0.74	Avg.	0.64	Max.	0.76
		30	0.70	0.65	0.76	0.71	0.76	Mn.	0.21		
	20	0	0.75	0.62	0.63	0.67	0.67	Avg.	0.62	Max.	0.75
		30	0.71	0.59	0.45	0.56	0.60	Mn.	0.45		
	21	0	0.56	0.59	0.45	0.47	0.17	Avg.	0.25	Max.	0.59
		30	0.09	0.08	0.03	0.03	0.02	Mn.	0.02		
	22	0	0.03	0.02	0.07	0.06	0.13	Avg.	0.20	Max.	0.39
		30	0.31	0.30	0.36	0.28	0.39	Mn.	0.02		
	23	0	0.42	0.48	0.45	0.44	0.41	Avg.	0.49	Max.	0.60
		30	0.52	0.54	0.60	0.55	0.49	Mn.	0.41		
2/20/2013	0	0	0.64	0.72	0.73	0.79	0.60	Avg.	0.77	Max.	0.91
		30	0.78	0.83	0.89	0.91	0.80	Mn.	0.60		
	1	0	0.76	0.77	0.71	0.70	0.66	Avg.	0.47	Max.	0.77
		30	0.42	0.34	0.23	0.12	0.03	Mn.	0.03		
	2	0	0.00	0.02	0.07	0.17	0.22	Avg.	0.16	Max.	0.27
		30	0.19	0.15	0.27	0.26	0.26	Mn.	0.00		
	3	0	0.21	0.07	0.05	0.07	0.09	Avg.	0.07	Max.	0.21
		30	0.08	0.03	0.01	0.03	0.03	Mn.	0.01		
	4	0	0.01	0.02	0.01	0.02	0.03	Avg.	0.02	Max.	0.04
		30	0.04	0.04	0.01	0.03	0.03	Mn.	0.01		
	5	0	0.06	0.03	0.01	0.01	0.02	Avg.	0.02	Max.	0.06
		30	0.02	0.02	0.01	0.02	0.04	Mn.	0.01		
	6	0	0.04	0.06	0.07	0.01	0.02	Avg.	0.03	Max.	0.07
		30	0.01	0.03	0.01	0.01	0.00	Mn.	0.00		
	7	0	0.00	0.00	0.00	0.00	0.01	Avg.	0.00	Max.	0.01
		30	0.00	0.00	0.00	0.00	0.00	Mn.	0.00		
	8	0	0.00	0.01	0.11 C	0.06	0.05	Avg.	0.02	Max.	0.06
		30	0.00	0.00	0.01	0.01	0.01	Mn.	0.00		
	9	0	0.00	0.00	0.00	0.00	0.00	Avg.	0.00	Max.	0.01
		30	0.00	0.01	0.00	0.00	0.00	Mn.	0.00		
	10	0	0.00	0.00	0.00	0.00	0.00	Avg.	0.00	Max.	0.00
		30	0.00	0.00	0.00	0.00	0.00	Mn.	0.00		
	11	0	0.00	0.00	0.00	0.00	0.00	Avg.	0.00	Max.	0.00
		30	0.00	0.00	0.00	0.00	0.00	Mn.	0.00		
Summary of data											
Fixed Block 6-min data availability for Opacity K											
Total hours:24.00											
Operating hours:24.00											
Valid hours:23.90											
Percent operating:100.00%											
Availability:99.58%											
6-min Opacity K (%)											
Minimum:0.00											
Maximum:0.91											
Average:0.17											
1-hour Opacity K (%)											
Minimum:0.00											
Maximum:0.77											
Average:0.17											
I - Invalid U - User Data D - Kiln Process Down K - Cooler Process Down C - Calibration											
M - Maintenance P - PreMeasure E - Error O - Out-of-Control Q - Kiln Feed Off											
R - Out-of-Range X - Excess Emission W - Caution L - Raw Mill Run A - Raw Mill Down											
S - Kiln Startup N - Not Calibrated F - Frozen FIFO G - SNCR Malfunction											

Appendix D. Cooler Stack 6-Minute Average Continuous Opacity Monitoring Data

6-min report for 2/19/2013 12:00:00 PM to 2/20/2013 11:59:59 AM											
Device: OMD41_C Component: Opacity C (%)											
Day	H	M	0	6	12	18	24				
February, 2013											
2/19/2013	12	0	0.85	0.83	0.86	0.85	0.85	Avg.	0.85	Max.	0.88
		30	0.86	0.83	0.85	0.85	0.88	Min.	0.83		
	13	0	0.88	0.88	0.87	0.86	0.90	Avg.	0.89	Max.	0.92
		30	0.88	0.88	0.90	0.92	0.90	Min.	0.86		
	14	0	0.88	0.87	0.88	0.91	0.91	Avg.	0.89	Max.	0.91
		30	0.88	0.91	0.91	0.87	0.87	Min.	0.87		
	15	0	0.87	0.91	0.90	0.90	0.89	Avg.	0.89	Max.	0.91
		30	0.91	0.90	0.88	0.89	0.86	Min.	0.86		
	16	0	0.85	0.86	0.85	0.85	0.85	Avg.	0.84	Max.	0.87
		30	0.87	0.84	0.83	0.81	0.81	Min.	0.81		
	17	0	0.82	0.84	0.83	0.86	0.85	Avg.	0.84	Max.	0.86
		30	0.83	0.83	0.86	0.86	0.86	Min.	0.82		
	18	0	0.91	0.91	0.89	0.88	0.87	Avg.	0.90	Max.	0.93
		30	0.89	0.92	0.93	0.92	0.93	Min.	0.87		
	19	0	0.95	0.95	0.98	0.97	0.98	Avg.	0.94	Max.	0.98
		30	0.94	0.90	0.91	0.89	0.91	Min.	0.89		
	20	0	0.90	0.94	0.93	0.89	0.90	Avg.	0.90	Max.	0.94
		30	0.92	0.90	0.90	0.86	0.88	Min.	0.86		
	21	0	0.87	0.88	0.86	0.95	0.82	Avg.	0.82	Max.	0.95
		30	0.78	0.78	0.77	0.76	0.74	Min.	0.74		
	22	0	0.73	0.73	0.77	0.75	0.70	Avg.	0.71	Max.	0.77
		30	0.71	0.64	0.67	0.67	0.72	Min.	0.64		
	23	0	0.68	0.69	0.67	0.64	0.70	Avg.	0.69	Max.	0.75
		30	0.72	0.75	0.72	0.67	0.72	Min.	0.64		
2/20/2013	0	0	0.70	0.72	0.70	0.77	0.77	Avg.	0.73	Max.	0.77
		30	0.75	0.73	0.71	0.71	0.75	Min.	0.70		
	1	0	0.79	0.81	0.80	0.76	0.78	Avg.	0.75	Max.	0.81
		30	0.72	0.72	0.73	0.72	0.69	Min.	0.69		
	2	0	0.65	0.63	0.58	0.57	0.58	Avg.	0.63	Max.	0.70
		30	0.60	0.63	0.68	0.68	0.70	Min.	0.57		
	3	0	0.73	0.69	0.68	0.64	0.59	Avg.	0.61	Max.	0.73
		30	0.56	0.58	0.56	0.51	0.51	Min.	0.51		
	4	0	0.48	0.48	0.45	0.44	0.41	Avg.	0.48	Max.	0.52
		30	0.52	0.48	0.50	0.49	0.52	Min.	0.41		
	5	0	0.53	0.51	0.50	0.49	0.46	Avg.	0.46	Max.	0.53
		30	0.39	0.41	0.41	0.45	0.44	Min.	0.39		
	6	0	0.46	0.48	0.50	0.48	0.45	Avg.	0.48	Max.	0.51
		30	0.48	0.49	0.51	0.49	0.48	Min.	0.45		
	7	0	0.49	0.40	0.42	0.38	0.42	Avg.	0.39	Max.	0.49
		30	0.35	0.37	0.34	0.36	0.36	Min.	0.34		
	8	0	0.33	0.35	0.31 C	0.03	0.01	Avg.	0.08	Max.	0.35
		30	0.01	0.01	0.00	0.01	0.00	Min.	0.00		
	9	0	0.01	0.01	0.01	0.02	0.03	Avg.	0.02	Max.	0.05
		30	0.05	0.01	0.01	0.01	0.00	Min.	0.00		
	10	0	0.00	0.00	0.01	0.00	0.01	Avg.	0.01	Max.	0.02
		30	0.01	0.00	0.00	0.01	0.02	Min.	0.00		
	11	0	0.02	0.02	0.02	0.03	0.05	Avg.	0.05	Max.	0.07
		30	0.06	0.07	0.07	0.06	0.06	Min.	0.02		
Summary of data											
Fixed Block 6-min data availability for Opacity C											
Total hours:24.00						Percent operating:100.00%					
Operating hours:24.00						Availability:99.58%					
Valid hours:23.90											
6-min Opacity C (%)						1-hour Opacity C (%)					
Minimum:0.00						Minimum:0.01					
Maximum:0.98						Maximum:0.94					
Average:0.62						Average:0.62					
I - Invalid U - User Data D - Kiln Process Down K - Cooler Process Down C - Calibration											
M - Maintenance P - PreMeasure E - Error O - Out-of-Control Q - Kiln Feed Off											
R - Out-of-Range X - Excess Emission W - Caution L - Raw Mill Run A - Raw Mill Down											
S - Kiln Startup N - Not Calibrated F - Frozen FIFO G - SNCR Malfunction											

Appendix E. Main Bag House Inlet Temperature 3-Hour Rolling Average Data

3-hour report for 2/19/2013 12:00:00 PM to 2/20/2013 11:59:59 AM													
Device:VD1 Component:Temp RMR (°F)													
Day	H	M	0	1	2	3	4	5	6	7	8	9	
February, 2013													
2/19/2013	12	0	259.4	L 259.6	L 259.8	L 260.0	L 260.2	L 260.4	L 260.6	L 260.8	L 261.0	L 261.2	L
		10	261.4	L 261.6	L 261.8	L 261.9	L 262.1	L 262.3	L 262.5	L 262.6	L 262.8	L 262.9	L
		20	263.1	L 263.2	L 263.4	L 263.5	L 263.7	L 263.9	L 264.0	L 264.2	L 264.4	L 264.5	L
		30	264.7	L 264.9	L 265.0	L 265.2	L 265.4	L 265.5	L 265.7	L 265.9	L 266.1	L 266.2	L
		40	266.4	L 266.6	L 266.8	L 266.9	L 267.1	L 267.3	L 267.5	L 267.7	L 267.9	L 268.0	L
		50	268.2	L 268.4	L 268.6	L 268.8	L 269.1	L 269.3	L 269.5	L 269.7	L 269.9	L 270.1	L
	13	0	270.3	L 270.5	L 270.7	L 270.9	L 271.1	L 271.3	L 271.5	L 271.7	L 271.9	L 272.1	L
		10	272.3	L 272.5	L 272.8	L 273.0	L 273.2	L 273.4	L 273.7	L 273.9	L 274.1	L 274.4	L
		20	274.6	L 274.8	L 275.0	L 275.2	L 275.5	L 275.7	L 275.9	L 276.1	L 276.3	L 276.5	L
		30	276.6	L 276.8	L 277.0	L 277.1	L 277.3	L 277.5	L 277.6	L 277.8	L 278.0	L 278.1	L
		40	278.3	L 278.5	L 278.6	L 278.8	L 279.0	L 279.1	L 279.3	L 279.4	L 279.6	L 279.7	L
		50	279.9	L 280.0	L 280.1	L 280.3	L 280.4	L 280.5	L 280.6	L 280.7	L 280.8	L 280.9	L
	14	0	281.0	L 281.1	L 281.2	L 281.3	L 281.4	L 281.4	L 281.5	L 281.6	L 281.6	L 281.7	L
		10	281.8	L 281.8	L 281.9	L 281.9	L 282.0	L 282.1	L 282.1	L 282.2	L 282.2	L 282.3	L
		20	282.3	L 282.4	L 282.4	L 282.4	L 282.5	L 282.5	L 282.5	L 282.5	L 282.4	L 282.4	L
		30	282.3	L 282.1	L 282.0	L 281.9	L 281.7	L 281.5	L 281.3	L 281.0	L 280.8	L 280.6	L
		40	280.3	L 280.1	L 279.9	L 279.7	L 279.5	L 279.4	L 279.2	L 279.1	L 279.0	L 278.9	L
		50	278.8	L 278.7	L 278.6	L 278.5	L 278.5	L 278.4	L 278.4	L 278.3	L 278.3	L 278.2	L
	15	0	278.2	L 278.1	L 278.1	L 278.0	L 278.0	L 277.9	L 277.9	L 277.9	L 277.8	L 277.8	L
		10	277.7	L 277.7	L 277.7	L 277.6	L 277.6	L 277.5	L 277.5	L 277.5	L 277.5	L 277.4	L
		20	277.4	L 277.4	L 277.4	L 277.4	L 277.3	L 277.3	L 277.3	L 277.3	L 277.3	L 277.2	L
		30	277.2	L 277.2	L 277.2	L 277.2	L 277.2	L 277.1	L 277.1	L 277.1	L 277.1	L 277.0	L
		40	277.0	L 276.9	L 276.9	L 276.8	L 276.8	L 276.8	L 276.7	L 276.7	L 276.7	L 276.6	L
		50	276.6	L 276.6	L 276.5	L 276.5	L 276.4	L 276.3	L 276.3	L 276.2	L 276.2	L 276.1	L
	16	0	276.1	L 276.0	L 276.0	L 275.9	L 275.9	L 275.8	L 275.7	L 275.7	L 275.6	L 275.5	L
		10	275.5	L 275.4	L 275.3	L 275.3	L 275.2	L 275.1	L 275.0	L 274.9	L 274.8	L 274.7	L
		20	274.6	L 274.5	L 274.4	L 274.4	L 274.3	L 274.2	L 274.1	L 274.0	L 274.0	L 273.9	L
		30	273.8	L 273.7	L 273.6	L 273.5	L 273.4	L 273.4	L 273.3	L 273.2	L 273.1	L 273.0	L
		40	272.9	L 272.8	L 272.7	L 272.6	L 272.5	L 272.4	L 272.3	L 272.2	L 272.1	L 272.0	L
		50	271.8	L 271.7	L 271.6	L 271.5	L 271.4	L 271.3	L 271.3	L 271.2	L 271.1	L 271.0	L
17	0	270.9	L 270.8	L 270.7	L 270.7	L 270.6	L 270.5	L 270.5	L 270.4	L 270.4	L 270.4	L	
	10	270.3	L 270.3	L 270.2	L 270.2	L 270.1	L 270.1	L 270.0	L 269.9	L 269.9	L 269.8	L	
	20	269.8	L 269.7	L 269.7	L 269.6	L 269.6	L 269.5	L 269.6	L 269.6	L 269.6	L 269.6	L	
	30	269.7	L 269.8	L 269.9	L 270.0	L 270.1	L 270.3	L 270.4	L 270.6	L 270.9	L 271.1	L	
	40	271.3	L 271.5	L 271.6	L 271.8	L 271.9	L 272.0	L 272.1	L 272.2	L 272.2	L 272.3	L	
	50	272.4	L 272.4	L 272.5	L 272.5	L 272.5	L 272.5	L 272.6	L 272.6	L 272.6	L 272.6	L	

3-hour report for 2/19/2013 12:00:00 PM to 2/20/2013 11:59:59 AM

Device:VD1 Component:Temp RMR (°F)

Day	H	M	0	1	2	3	4	5	6	7	8	9	
February, 2013													
2/19/2013	18	0	272.6	L	272.6	L	272.6	L	272.6	L	272.6	L	272.6
		10	272.6	L	272.6	L	272.6	L	272.6	L	272.6	L	272.6
		20	272.6	L	272.6	L	272.6	L	272.6	L	272.6	L	272.5
		30	272.5	L	272.5	L	272.5	L	272.5	L	272.4	L	272.4
		40	272.5	L	272.5	L	272.5	L	272.5	L	272.5	L	272.4
		50	272.3	L	272.3	L	272.3	L	272.2	L	272.2	L	272.2
	19	0	272.2	L	272.1	L	272.1	L	272.1	L	272.1	L	272.0
		10	271.9	L	271.8	L	271.8	L	271.7	L	271.7	L	271.7
		20	271.7	L	271.7	L	271.7	L	271.6	L	271.6	L	271.5
		30	271.5	L	271.5	L	271.4	L	271.4	L	271.4	L	271.3
		40	271.3	L	271.3	L	271.3	L	271.3	L	271.3	L	271.3
		50	271.3	L	271.3	L	271.3	L	271.3	L	271.3	L	271.4
	20	0	271.3	L	271.3	L	271.3	L	271.3	L	271.3	L	271.3
		10	271.3	L	271.3	L	271.2	L	271.2	L	271.1	L	271.1
		20	271.1	L	271.1	L	271.1	L	271.0	L	271.0	L	270.9
		30	270.9	L	270.8	L	270.8	L	270.7	L	270.7	L	270.7
		40	270.6	L	270.6	L	270.6	L	270.6	L	270.6	L	270.5
		50	270.5	L	270.5	L	270.5	L	270.4	L	270.4	L	270.4
	21	0	270.4	L	270.4	L	270.4	L	270.4	L	270.3	L	270.3
		10	270.1	L	270.0	L	270.0	L	270.0	L	269.9	L	269.9
		20	269.8	L	269.8	L	269.7	L	269.7	L	269.6	L	269.6
		30	269.5	L	269.4	L	269.4	L	269.4	L	269.4	L	269.4
		40	269.3	L	269.3	L	269.2	L	269.2	L	269.2	L	269.2
		50	269.2	L	269.2	L	269.2	L	269.2	L	269.2	L	269.2
		22	0	269.3	L	269.3	L	269.3	L	269.3	L	269.3	L
10			269.4	L	269.5	L	269.5	L	269.5	L	269.5	L	269.6
20			269.6	L	269.6	L	269.6	L	269.6	L	269.6	L	269.6
30			269.6	L	269.6	L	269.5	L	269.5	L	269.5	L	269.5
40			269.4	L	269.4	L	269.3	L	269.3	L	269.3	L	269.2
50			269.2	L	269.2	L	269.1	L	269.1	L	269.1	L	269.1
23	0	269.1	L	269.1	L	269.1	L	269.1	L	269.1	L	269.0	
	10	268.9	L	269.0	L	269.0	L	269.1	L	269.1	L	269.1	
	20	269.1	L	269.2	L	269.2	L	269.2	L	269.2	L	269.3	
	30	269.3	L	269.3	L	269.4	L	269.4	L	269.4	L	269.4	
	40	269.4	L	269.4	L	269.4	L	269.4	L	269.3	L	269.3	
	50	269.3	L	269.3	L	269.3	L	269.4	L	269.4	L	269.4	

3-hour report for 2/19/2013 12:00:00 PM to 2/20/2013 11:59:59 AM

Device:VD1 Component:Temp RMR (°F)

Day	H	M	0	1	2	3	4	5	6	7	8	9													
February, 2013																									
2/20/2013	0	0	269.3	L	269.3	L	269.3	L	269.3	L	269.4	L	269.4	L	269.4	L	269.5	L	269.5	L	269.6	L			
		10	269.6	L	269.6	L	269.6	L	269.7	L	269.7	L	269.7	L	269.7	L	269.7	L	269.8	L	269.8	L	269.8	L	
		20	269.8	L	269.8	L	269.8	L	269.9	L	269.9	L	269.9	L	269.9	L	269.9	L	269.9	L	269.9	L	269.9	L	
		30	270.0	L	270.0	L	270.0	L	270.0	L	270.0	L	270.0	L	270.0	L	270.0	L	270.0	L	270.0	L	270.0	L	
		40	270.0	L	270.0	L	269.9	L	269.9	L	269.9	L	269.9	L	269.9	L	269.9	L	269.9	L	270.0	L	270.0	L	
		50	270.0	L	269.9	L	269.9	L	269.9	L	269.9	L	269.9	L	269.8	L	269.8	L	269.8	L	269.8	L	269.8	L	269.7
	1	0	269.7	L	269.7	L	269.7	L	269.8	L	269.8	L	269.8	L	269.8	L	269.7	L	269.7	L	269.7	L	269.6	L	
		10	269.6	L	269.5	L	269.5	L	269.5	L	269.5	L	269.5	L	269.5	L	269.4	L	269.4	L	269.3	L	269.3	L	
		20	269.3	L	269.2	L	269.2	L	269.1	L	269.1	L	269.1	L	269.1	L	269.0	L	269.0	L	269.0	L	269.0	L	
		30	268.9	L	268.9	L	268.9	L	268.9	L	268.8	L	268.8	L	268.8	L	268.8	L	268.7	L	268.7	L	268.7	L	
		40	268.7	L	268.6	L	268.6	L	268.6	L	268.6	L	268.5	L	268.5	L	268.5	L	268.5	L	268.5	L	268.4	L	
		50	268.4	L	268.4	L	268.4	L	268.3	L	268.3	L	268.3	L	268.3	L	268.3	L	268.3	L	268.2	L	268.2	L	
	2	0	268.2	L	268.1	L	268.1	L	268.1	L	268.0	L	268.0	L	268.0	L	268.0	L	268.0	L	268.0	L	268.0	L	
		10	267.9	L	267.9	L	267.9	L	267.8	L	267.8	L	267.7	L	267.7	L	267.7	L	267.7	L	267.6	L	267.6	L	
		20	267.6	L	267.6	L	267.5	L	267.5	L	267.4	L	267.4	L	267.4	L	267.4	L	267.3	L	267.3	L	267.3	L	
		30	267.3	L	267.2	L	267.2	L	267.2	L	267.2	L	267.1	L	267.1	L	267.1	L	267.1	L	267.1	L	267.1	L	
		40	267.0	L	267.0	L	267.0	L	267.0	L	267.0	L	267.0	L	267.0	L	267.0	L	266.9	L	266.9	L	266.9	L	
		50	266.9	L	266.9	L	266.9	L	266.8	L	266.8	L	266.8	L	266.8	L	266.8	L	266.7	L	266.7	L	266.7	L	
	3	0	266.6	L	266.6	L	266.5	L	266.5	L	266.4	L	266.4	L	266.4	L	266.4	L	266.3	L	266.3	L	266.3	L	
		10	266.2	L	266.2	L	266.2	L	266.1	L	266.1	L	266.0	L	266.0	L	265.9	L	265.9	L	265.9	L	265.8	L	
		20	265.8	L	265.7	L	265.7	L	265.7	L	265.6	L	265.6	L	265.6	L	265.6	L	265.5	L	265.5	L	265.5	L	
		30	265.4	L	265.4	L	265.4	L	265.4	L	265.4	L	265.4	L	265.4	L	265.4	L	265.4	L	265.5	L	265.5	L	
		40	265.5	L	265.5	L	265.6	L	265.6	L	265.6	L	265.6	L	265.6	L	265.6	L	265.6	L	265.6	L	265.6	L	
		50	265.6	L	265.7	L	265.7	L	265.7	L	265.7	L	265.7	L	265.7	L	265.7	L	265.7	L	265.7	L	265.7	L	
	4	0	265.7	L	265.7	L	265.7	L	265.7	L	265.7	L	265.7	L	265.7	L	265.7	L	265.7	L	265.7	L	265.8	L	
		10	265.8	L	265.8	L	265.8	L	265.9	L	265.9	L	265.9	L	265.9	L	265.9	L	265.9	L	265.9	L	265.9	L	
		20	266.0	L	266.0	L	266.0	L	266.0	L	266.0	L	266.1	L	266.1	L	266.1	L	266.1	L	266.1	L	266.1	L	
		30	266.2	L	266.2	L	266.2	L	266.2	L	266.2	L	266.2	L	266.2	L	266.3	L	266.3	L	266.3	L	266.3	L	
		40	266.4	L	266.4	L	266.4	L	266.4	L	266.4	L	266.4	L	266.4	L	266.4	L	266.4	L	266.4	L	266.4	L	
		50	266.4	L	266.4	L	266.4	L	266.4	L	266.4	L	266.4	L	266.4	L	266.3	L	266.3	L	266.3	L	266.3	L	
5	0	266.3	L	266.3	L	266.3	L	266.2	L	266.2	L	266.2	L	266.2	L	266.2	L	266.2	L	266.2	L	266.2	L		
	10	266.2	L	266.2	L	266.2	L	266.1	L	266.1	L	266.1	L	266.1	L	266.1	L	266.1	L	266.1	L	266.1	L		
	20	266.1	L	266.1	L	266.1	L	266.0	L	266.0	L	266.1	L	266.0	L	266.0	L	266.0	L	266.1	L	266.1	L		
	30	266.1	L	266.1	L	266.1	L	266.1	L	266.1	L	266.2	L	266.2	L	266.2	L	266.2	L	266.2	L	266.2	L		
	40	266.2	L	266.3	L	266.3	L	266.3	L	266.3	L	266.4	L	266.4	L	266.4	L	266.4	L	266.5	L	266.5	L		
	50	266.5	L	266.6	L	266.6	L	266.6	L	266.6	L	266.7	L	266.7	L	266.7	L	266.8	L	266.8	L	266.8	L		

3-hour report for 2/19/2013 12:00:00 PM to 2/20/2013 11:59:59 AM

Device:VD1 Component:Temp RMR (°F)

Day	H	M	0	1	2	3	4	5	6	7	8	9	
February, 2013													
2/20/2013	6	0	266.9 L	266.9 L	267.0 L	267.0 L	267.1 L	267.2 L	267.2 L	267.3 L	267.3 L	267.3 L	
		10	267.4 L	267.4 L	267.4 L	267.5 L	267.5 L	267.5 L	267.6 L	267.6 L	267.6 L	267.7 L	267.7 L
		20	267.8 L	267.9 L	267.9 L	268.0 L	268.0 L	268.1 L	268.1 L	268.1 L	268.1 L	268.1 L	268.2 L
		30	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.1 L
		40	268.1 L	268.1 L	268.1 L	268.1 L	268.0 L	268.0 L	268.0 L	268.0 L	268.0 L	268.0 L	268.0 L
		50	268.0 L	268.0 L	268.0 L	268.0 L	268.0 L	268.0 L	268.0 L	268.0 L	268.0 L	268.0 L	268.1 L
	7	0	268.1 L	268.1 L	268.1 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L
		10	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L
		20	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L
		30	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L
		40	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L
		50	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L
	8	0	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L
		10	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L
		20	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.2 L	268.3 L	268.3 L
		30	268.3 L	268.2 L	268.0 L	267.9 L	267.8 L	267.6 L	267.5 L	267.3 L	267.1 L	267.1 L	267.0 L
		40	266.8 L	266.6 L	266.5 L	266.3 L	266.2 L	266.0 L	265.9 L	265.8 L	265.6 L	265.6 L	265.5 L
		50	265.3 L	265.3 L	265.2 L	265.1 L	265.0 L	264.9 L	264.8 L	264.7 L	264.6 L	264.6 L	264.5 L
	9	0	264.4 L	264.3 L	264.2 L	264.2 L	264.1 L	264.0 L	263.9 L	263.8 L	263.7 L	263.7 L	263.6 L
		10	263.6 L	263.5 L	263.4 L	263.3 L	263.2 L	263.2 L	263.1 L	263.1 L	263.0 L	263.0 L	262.9 L
		20	262.8 L	262.8 L	262.7 L	262.6 L	262.5 L	262.4 L	262.3 L	262.2 L	262.2 L	262.2 L	262.1 L
		30	262.1 L	262.0 L	261.9 L	261.8 L	261.8 L	261.7 L	261.6 L	261.5 L	261.4 L	261.4 L	261.4 L
		40	261.3 L	261.2 L	261.1 L	261.0 L	260.9 L	260.8 L	260.8 L	260.7 L	260.6 L	260.6 L	260.5 L
		50	260.4 L	260.3 L	260.2 L	260.1 L	260.1 L	260.0 L	259.9 L	259.8 L	259.7 L	259.7 L	259.6 L
	10	0	259.5 L	259.5 L	259.4 L	259.3 L	259.3 L	259.2 L	259.1 L	259.0 L	258.9 L	258.9 L	258.9 L
		10	258.8 L	258.7 L	258.6 L	258.5 L	258.5 L	258.4 L	258.3 L	258.2 L	258.2 L	258.1 L	258.1 L
		20	258.0 L	257.9 L	257.9 L	257.8 L	257.7 L	257.6 L	257.6 L	257.5 L	257.4 L	257.4 L	257.3 L
		30	257.3 L	257.2 L	257.1 L	257.1 L	257.0 L	256.9 L	256.8 L	256.7 L	256.7 L	256.6 L	256.6 L
		40	256.5 L	256.5 L	256.4 L	256.3 L	256.3 L	256.2 L	256.1 L	256.1 L	256.0 L	256.0 L	255.9 L
		50	255.9 L	255.8 L	255.7 L	255.7 L	255.6 L	255.6 L	255.5 L	255.4 L	255.3 L	255.3 L	255.2 L
11	0	255.1 L	255.0 L	254.9 L	254.9 L	254.8 L	254.7 L	254.6 L	254.6 L	254.5 L	254.5 L	254.5 L	
	10	254.4 L	254.4 L	254.3 L	254.2 L	254.2 L	254.1 L	254.0 L	254.0 L	253.9 L	253.8 L	253.8 L	
	20	253.8 L	253.7 L	253.7 L	253.6 L	253.6 L	253.5 L	253.4 L	253.4 L	253.2 L	253.1 L	253.1 L	
	30	253.1 L	253.2 L	253.2 L	253.3 L	253.4 L	253.5 L	253.6 L	253.7 L	253.8 L	253.9 L	253.9 L	
	40	254.0 L	254.1 L	254.2 L	254.3 L	254.4 L	254.5 L	254.6 L	254.7 L	254.8 L	254.9 L	254.9 L	
	50	254.9 L	255.0 L	255.0 L	255.1 L	255.2 L	255.2 L	255.3 L	255.4 L	255.5 L	255.5 L	255.5 L	

Summary of data

Rolling 3-hour : 1-min data availability for Temp RMR

Total hours:24.00

Operating hours:24.00

Valid hours:24.00

Percent operating:100.00%

Availability:100.00%

3-hour Temp RMR (°F)

Minimum:253.1

Maximum:282.5

Average:268.7

I - Invalid U - User Data D - Kiln Process Down K - Cooler Process Down C - Calibration

M - Maintenance P - PreMeasure E - Error O - Out-of-Control Q - Kiln Feed Off

R - Out-of-Range X - Excess Emission W - Caution L - Raw Mill Run A - Raw Mill Down

S - Kiln Startup N - Not Calibrated F - Frozen FIFO G - SNCR Malfunction

Appendix F. Sample Analysis Summary Results

Results from both external and internal lab analysis are reported in this section. All results are reported as dry basis.

Fuel Quality Analysis Summary

SAC's Feeder Sampling & Analysis Summary				
Sample Count	90	25	24	55
Analyte	Moisture	Ash	Volatile	Calorific Value
Unit	%	%	%	Btu/lb
Max	61.10	24.58	90.43	15,360
Avg	34.80	15.38	82.62	11,415
Min	3.50	6.42	71.99	7,661
Std. Dev.	11.62	4.58	4.59	1,838

Proximate & Ultimate Analysis Composite Feeder Sample									
Sample Count	3	3	3	3	3	3	3	3	3
Analyte	Ash	Volat.	Fixed C.	Sulfur	Calorific Value	C	H	N	O
Unit	%	%	%	%	Btu/lb	%	%	%	%
Max	15.76	85.09	7.96	0.26	14,167	70.55	9.08	0.61	20.55
Avg	14.00	83.09	2.91	0.16	11,704	63.97	8.06	0.34	13.47
Min	11.77	80.27	0.33	0.10	9,221	56.15	7.29	0.15	5.52
Std. Dev.	2.04	2.51	4.38	0.09	2,473	7.28	0.92	0.24	7.55

Proximate & Ultimate Analysis of Carpet Samples Summary									
Sample Count	14	14	14	14	14	14	14	14	14
Analyte	Ash	Volat.	Fixed C.	Sulfur	Calorific Value	C	H	N	O
Unit	%	%	%	%	Btu/lb	%	%	%	%
Max	29.18	90.00	5.57	0.21	9,940	61.35	6.85	1.93	35.80
Avg	15.64	82.79	1.57	0.10	8,027	49.21	4.69	0.72	29.37
Min	9.71	65.25	0.19	0.01	4,498	34.80	3.71	0.10	17.69
Std. Dev.	5.30	6.23	1.57	0.06	1,727	8.13	0.77	0.54	4.98

Proximate & Ultimate Analysis of Engineered Fuel Samples Summary									
Sample Count	3	3	3	3	3	3	3	3	3
Analyte	Ash	Volat.	Fixed C.	Sulfur	Calorific Value	C	H	N	O
Unit	%	%	%	%	Btu/lb	%	%	%	%
Max	22.76	81.42	3.58	0.16	13,054	68.80	9.17	0.27	15.06
Avg	17.82	79.54	2.64	0.11	11,216	62.01	8.06	0.21	11.80
Min	15.00	76.16	1.08	0.06	9,084	54.60	7.25	0.17	6.01
Std. Dev.	4.29	2.93	1.36	0.05	2,001	7.12	0.99	0.06	5.03

Metals & Chloride Analysis

RCRA Metals & Chloride Analysis of Composite Feeder Samples							
Sample Count	4	2	2	2	2	2	2
Analyte	Mercury	Arsenic	Cadmium	Chloride	Chromium	Lead	Selenium
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Max	0.038						
Avg	0.020	ND	ND	ND	1.30	0.97	ND
Min	0.010						
Std. Dev.	0.014						

RCRA Metals & Chloride Analysis of Carpet Samples							
Sample Count	11	8	8	8	8	8	8
Analyte	Mercury	Arsenic	Cadmium	Chloride	Chromium	Lead	Selenium
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Max	0.082	19.5	0.84	559	9.51	11.60	
Avg	0.033	12.8	0.52	270	3.35	6.03	ND
Min	0.011	6.2	0.20	108	0.66	1.27	
Std. Dev.	0.028	9.4	0.46	151	2.86	5.30	
# Non Detect	4	6	6	0	0	4	8

RCRA Metals & Chloride Analysis of Engineered Fuel Samples							
Sample Count	1	1	1	1	1	1	1
Analyte	Mercury	Arsenic	Cadmium	Chloride	Chromium	Lead	Selenium
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Max							
Avg	ND	0.6	ND	9.6	2.61	4.19	ND
Min							
Std. Dev.							

ND = Non Detect