



August 26, 2016

Mr. Jeremy Howe
Michigan DEQ, AQD
120 West Chapin Street
Cadillac, MI 49601

RE: Response to Violation Notice; Dated August 5, 2016
SRN: B1477, Alpena County

Dear Mr. Howe:

This letter is in response to alleged violations of various conditions of Renewable Operating Permit MI-ROP-B1477-2012 for the 2015 emissions testing report submitted by Lafarge Midwest, Inc. – Alpena Plant located at 1435 Ford Avenue, Alpena, Michigan.

The following is the basis of the alleged violation as stated in the Violation Notice; “The oxygen and flow continuous emission monitors data used during the associated emissions testing was not provided. This data is necessary to calculate emissions to show the sources are in compliance. The sulfur dioxide, oxygen, and flow continuous emission monitors data for the wet gas scrubber controlling emissions from FG KG 6 was not provided. This data is necessary to calculate relative accuracy to show the monitors are in compliance.”

In response to the request for oxygen and flow during emissions testing, please find in Attachment A, a copy of the one-minute averages from the oxygen and flow continuous

ALPENA PLANT
1435 Ford Avenue, Alpena, MI 49707
OFFICE: (989) 354-4171 FAX: (989) 354-2223



emission monitors on EU Kiln 19, EU Kiln 20, EU Kiln 21 and FG KG6 as collected by the Plant Data Acquisition System during the associated emissions testing that occurred during July and August, 2015. This data in its entirety was not included in the stack test report for the purposes of data reduction as described in Section 7 – Data Reduction of the approved stack test protocol, dated May 2015.

“AECOM will reduce and validate all of the sampling and field measurement data that are collected. AECOM will incorporate the analytical data with sampling data to determine concentrations and emission rates of the compounds of interest.”

In response to the request for missing data for the FG KG6 relative accuracy test audit (RATA) performed on July 14, 2015, this data has been included in Attachment B. This data was initially provided to the stack testing consultant during testing and then summarized in the final report for the purpose of evaluating RATA results for the purpose of determining compliance status. Although this data was inadvertently omitted from the final report, it was not specifically requested at that time nor was the inclusion of this data necessary to demonstrate compliance. With this letter, we are responding to the first official request for this data.

In summary, Lafarge Midwest, Inc. – Alpena Plant believes the observations within the Violation Notice do not constitute violations of the permit conditions cited. This belief is based on the fact that Lafarge has demonstrated compliance with all applicable standards cited within the notice. To further reaffirm Lafarge’s willingness to share information when requested, Lafarge has worked with MDEQ Staff to provide comprehensive responses to all information requests during the review of the 2015 testing, which did not include the information requested in this Notice of



Violation. Lafarge is requesting that the Violation Notice be rescinded and reclassified as a request for additional information.

If you have any questions regarding this or would like to discuss, please contact me at 989-358-3321.

Respectfully,

Lafarge Midwest Inc.

A handwritten signature in black ink, appearing to read 'Travis B. Weide'.

Travis B. Weide
Area Environmental & Public Affairs Manager

cc: Mr. Kurt Childs - MDEQ, Cadillac via e-mail
Mr. Paul Rogers – Lafarge, Plant Manager



Attachment A

One-minute averages from the oxygen and flow continuous emission monitors on EU Kiln 19, EU Kiln 20, EU Kiln 21 and FG KG6 as collected by the Plant Data Acquisition System during the associated emissions testing that occurred during July and August, 2015.

K19 Kiln Stack

7/17/2015	Stk O2 %	kscfm (dry)
10:05	7.1	68.37
10:06	7	59.4
10:07	7.2	71.01
10:08	7.4	69.67
10:09	7.4	69.89
10:10	7.3	70.49
10:11	7.3	69.91
10:12	7.3	71.15
10:13	7.2	68.43
10:14	7.2	69.06
10:15	7.2	64.81
10:16	7.3	68.96
10:17	7.1	67.98
10:18	7.1	68.89
10:19	7.2	68.46
10:20	7.2	68.17
10:21	7.3	68.82
10:22	7.2	66.43
10:23	7	69.19
10:24	6.9	67.13
10:25	7.1	68.65
10:26	7.1	62.12
10:27	7.2	68.17
10:28	7.2	60.31
10:29	7.3	71.45
10:30	7.4	69.3
10:31	7.3	69.9
10:32	7.3	70.67
10:33	7.4	69.9
10:34	7.3	71.24
10:35	7.2	68.77
10:36	7.2	68.98
10:37	7.1	64.79
10:38	7.3	69.51
10:39	7.2	69.76
10:40	7	68.68
10:41	7.1	69.44
10:42	7.4	70.1
10:43	7.6	69.55
10:44	7.5	67.73
10:45	7.3	68.54
10:46	7.1	66.32
10:47	7.1	69.45
10:48	7.1	62.08
10:49	7.2	67.59

10:50	7.1	58.34
10:51	7.2	71.18
10:52	7.3	70.33
10:53	7.2	70.04
10:54	7.2	71.16
10:55	7.2	70.19
10:56	7.2	70.23
10:57	7.1	68.16
10:58	7	69.61
10:59	7	64.91
11:00	7.3	68.37
11:01	7.4	68.46
11:02	7.4	68.97
11:03	7.3	68.93
11:04	7.4	69.94
11:05	7.5	68.85
11:06	7.5	67.23
11:07	7.4	67.89
11:08	7.3	66.47
11:09	7.3	69.07
11:10	7.2	62.63
11:11	7.3	68.32
11:12	7.3	59.81
11:13	7.3	69.94
11:14	7.4	69.63
11:15	7.2	70.21
11:16	7	70.29
11:17	7.2	70.2
11:18	7.2	70.49
11:19	7.1	68.81
11:20	7.2	70.13
11:21	7.2	65.5
11:22	7.4	69.4
11:23	7.3	69.18
11:24	7.4	69.29
11:25	7.4	69
11:26	7.6	70.22
11:27	7.7	69.65
11:28	7.5	68.39
11:29	7.3	69.67
11:30	7.2	67.02
11:31	7.3	68.81
11:32	7.2	63.69
11:33	7.1	69.01
11:34	7.1	62.25
11:35	7.3	71.4
11:36	7.4	71.87

11:37	7.4	72.97
11:38	7.2	72.52
11:39	7.3	72.29
11:40	7.2	72.8
11:41	7.2	70.87
11:42	7.3	72.21
11:43	7.3	67.27
11:44	7.2	70.84
11:45	7.1	71.13
11:46	7.3	71.3
11:47	21.3	72.25
11:48	21.3	74.84
11:49	21.3	72.79
11:50	21.3	71.78
11:51	21.3	71.85
11:52	21.3	70.56
11:53	21.3	71.87
11:54	21.3	66.07
11:55	21.2	70.97
11:56	16.3	61.91
11:57	8.3	72.8
11:58	7.6	72.56
11:59	7.5	73.13
12:00	7.5	73.58
12:01	7.5	73.24
12:02	7.3	75.33
12:03	7.3	71.53
12:04	7.2	72.72
12:05	7.2	13.45
12:06	7.4	57.27
12:07	7.2	73.66
12:08	7.1	74.02
12:09	7.3	72.09
12:10	7.6	73.77
12:11	7.6	71.9
12:12	7.6	71.9
12:13	7.3	72.62
12:14	7.2	69.88
12:15	7.2	71.83
12:16	7.3	66.91
12:17	7.4	70.87
12:18	7.3	62.59
12:19	7.2	72.42
12:20	7.1	72.9
12:21	7.2	73.68
12:22	7.3	72.7
12:23	7.4	73.54

12:24	7.1	73.76
12:25	6.8	70.79
12:26	6.9	72
12:27	7.1	69.02
12:28	7.4	70.79
12:29	7.4	71.02
12:30	7.4	72.96
12:31	7.3	71.2
12:32	7.4	73.09
12:33	7.4	71.48
12:34	7.4	71.63
12:35	7.2	71.62
12:36	7.2	70.35
12:37	7.1	71
12:38	7.1	66.7
12:39	7.1	70.79
12:40	7	61.91
12:41	7	71.83
12:42	7.1	72.53
12:43	7	73.99
12:44	7	72.62
12:45	7.2	73.54
12:46	7.2	73.81
12:47	7.3	71.85
12:48	7.3	71.98
12:49	7.3	69.37
12:50	7.4	71.02
12:51	7.4	72.42
12:52	7.4	72.76
12:53	7.3	71.7
12:54	7.3	72.51
12:55	7.4	71.46
12:56	7.5	71.69
12:57	7.3	71.72
12:58	7.2	70.08
12:59	7.1	71.14
13:00	6.9	66.83
13:01	7	70.57
13:02	7	64.42
13:03	7.2	72.72
13:04	7.3	72.34
13:05	7.5	73.49
13:06	7.5	73.23
13:07	7.5	74.15
13:08	7.3	74.48
13:09	7.2	71.87
13:10	7.2	72.22

13:11	7.3	69.16
13:12	7.5	72.14
13:13	7.3	72.5
13:14	7.2	72.23
13:15	7.2	70.94
13:16	7.5	73.35
13:17	7.4	71.28
13:18	7.2	72.02
13:19	7.1	71.67
13:20	7.2	70.89
13:21	7.1	71.75
13:22	7.1	67.14
13:23	7.2	70.57
13:24	7.2	62.4
13:25	7.4	70.64
13:26	7.4	72.8
13:27	7.5	73.99
13:28	7.3	73.3
13:29	7.3	73.93
13:30	7.2	74.13
13:31	7.2	72.07
13:32	7.2	72.11
13:33	7.1	68.58
13:34	7.2	70.96
13:35	7	71.6
13:36	7	71.83
13:37	7.1	71.94
13:38	7.3	73.1
13:39	7.4	70.54
13:40	7.4	71.77
13:41	7.2	70.99
13:42	7.1	71.43
13:43	7.1	71.11
13:44	7.2	67.51
13:45	7.3	69.57
13:46	7.2	64.04
13:47	7.2	70.37
13:48	7.1	72.91
13:49	7.2	74.49
13:50	7.1	72.47
13:51	7.3	73.77
13:52	7.1	72.84
13:53	7	72.03
13:54	6.9	73.14
13:55	7.1	69.8
13:56	7.3	70.87
13:57	7.3	72

13:58	7.3	72.49
13:59	7.3	71.73
14:00	7.4	73.97
14:01	7.3	69.93
14:02	7.4	71.99
14:03	7.2	70.91
14:04	7.2	71.09
14:05	7.1	71.46
14:06	7.1	68.51
14:07	7.2	69.25
14:08	7.2	66.44
14:09	7.3	70.73
14:10	7.1	72.5
14:11	7.1	73.58
14:12	7.1	72.51
14:13	7.4	72.6
14:14	7.3	73.14
14:15	7.4	71.72
14:16	7.3	72.34
14:17	7.2	71
14:18	7.2	70.2
14:19	7.2	71.5
14:20	7.3	72.15
14:21	7.2	71.4
14:22	7.3	73.95
14:23	7.2	70.75
14:24	7.3	72.11
14:25	7.1	69.83
14:26	7.1	70.52
14:27	7.1	70.59
14:28	6.9	68.02
14:29	7.1	69.09
14:30	7.5	62.53
14:31	7.9	69.91
14:32	8	71.83
14:33	8	73.94
14:34	7.5	73.93
14:35	7.1	72.82
14:36	6.9	73.36
14:37	7.1	72.91
14:38	7.2	72.37
14:39	7.3	69.67
14:40	7.5	69.72
14:41	7.2	72.05
14:42	7.2	72.76
14:43	7.4	70.75
14:44	7.7	72.81

14:45	7.4	70.89
14:46	7.3	71.7
14:47	7.2	73.29
14:48	7.1	75.78
14:49	6.9	74.99
14:50	7.1	71.36
14:51	7.3	71.04
14:52	7.3	69.57
14:53	7.3	72.17
14:54	7.2	73.8
14:55	7.3	74.98
14:56	7.3	73.14
14:57	7.4	74.11
14:58	7.2	73.9
14:59	7.4	73.63
15:00	7.4	72.57
15:01	7.2	70.03
15:02	7	70.12
15:03	6.8	72.04
15:04	6.9	72.86
15:05	7.1	13.34
15:06	7.4	59.41
15:07	7.5	71.25
15:08	7.7	72.53
15:09	7.4	71.59
15:10	7.3	73.36
15:11	7.3	70.51
15:12	7.3	69.45
15:13	7.3	69.87
15:14	7.3	67.47
15:15	7.3	70.18
15:16	7.3	73.74
15:17	7.5	73.63
15:18	7.4	72.72
15:19	7.5	73.4
15:20	7.2	72.83
15:21	7	72.83
15:22	7	71.49
15:23	7.1	70.3
15:24	7.2	70.12
15:25	7.4	72.3
15:26	7.4	71.74
15:27	7.3	70.97
15:28	7.5	72.87
15:29	7.5	69.99
15:30	7.5	71.92
15:31	7.3	70.56

15:32	7.2	72.1
15:33	7.2	69.4
15:34	7.3	69.36
15:35	7.2	69.15
15:36	7.2	65.54
15:37	7.2	69.66
15:38	7	72.8
15:39	7.2	72.51
15:40	7.3	72.73
15:41	7.5	73.7
15:42	7.3	72.9
15:43	7.3	73.16
15:44	7.1	72.44
15:45	7.1	71.04
15:46	7.1	70.13
15:47	7.2	71.76
15:48	7.3	73.01
15:49	7.2	72.06
15:50	7.3	73.05
15:51	7.3	70.45
15:52	7.4	72.07
15:53	7.1	70.13
15:54	7.2	71.08
15:55	7	69.46
15:56	7	70.03
15:57	7.1	68.09
15:58	7.2	67.93
15:59	7.3	68.3
16:00	7.2	73.08
16:01	7.4	73.78
16:02	7.4	72.44
16:03	7.5	74.14
16:04	7.3	74.09
16:05	7.3	72.22
16:06	7.2	71.65
16:07	7.2	71.35
16:08	7.2	69.65
16:09	7.2	71.63
16:10	7.2	72.41
16:11	7.2	71.21
16:12	7.4	73.12
16:13	7.2	70.86
16:14	7.3	72.16

K20 Kiln Stack

7/18/2015	Stk O2 %	kscfm (dry)
8:20	9	97.6
8:21	9	96.9
8:22	9.3	94.08
8:23	9	97.48
8:24	8.9	94.46
8:25	9	91.57
8:26	8.8	99.79
8:27	8.9	94.58
8:28	9	97.17
8:29	8.7	97.84
8:30	8.9	94.37
8:31	8.7	99.87
8:32	8.9	95.22
8:33	8.9	95.06
8:34	8.7	98.1
8:35	9	92.64
8:36	8.8	95.98
8:37	8.8	98.31
8:38	9	97.27
8:39	9	100.01
8:40	9	94.09
8:41	9	93.86
8:42	8.7	99.6
8:43	9	95.06
8:44	8.7	96.79
8:45	9.1	96.57
8:46	9.3	95.87
8:47	21.1	100.45
8:48	20.9	97.01
8:49	20.9	96.35
8:50	20.9	100.06
8:51	20.9	96.09
8:52	20.9	96.99
8:53	20.9	98.93
8:54	20.9	98.34
8:55	20.2	101.57
8:56	10.1	98.12
8:57	9.3	93.76
8:58	9	102.29
8:59	9.1	95.34
9:00	9.1	98.9
9:01	8.8	101.53
9:02	9.1	95.74
9:03	9	100.3
9:04	9	97.18

9:05	9.1	1.14
9:06	8.8	74.04
9:07	9.1	93.8
9:08	8.9	96.86
9:09	8.8	98.21
9:10	9	97.13
9:11	9	101.04
9:12	8.9	98.92
9:13	9.1	97.22
9:14	8.9	101.06
9:15	9.2	97.6
9:16	8.8	97.83
9:17	9	98.83
9:18	9.3	95.28
9:19	9	99.22
9:20	8.9	95.79
9:21	9	95.63
9:22	8.7	99.59
9:23	9.1	95.4
9:24	9.1	95.71
9:25	9	98.4
9:26	9.2	94.98
9:27	8.8	98.71
9:28	8.8	97.4
9:29	9	94.27
9:30	8.8	102.6
9:31	9	96.15
9:32	9	97.28
9:33	8.8	100.24
9:34	8.8	95.07
9:35	8.7	99.32
9:36	8.9	96.54
9:37	9	96.26
9:38	8.8	100.65
9:39	9	94.73
9:40	8.9	95.49
9:41	8.7	98.92
9:42	9.1	96.95
9:43	9.1	99.9
9:44	8.9	96.35
9:45	9.1	95.67
9:46	8.8	101.25
9:47	8.9	98.43
9:48	8.7	99.28
9:49	9	97.74
9:50	9.4	96.62
9:51	9	100.13

9:52	8.8	95.15
9:53	8.9	95.74
9:54	8.8	98.97
9:55	9.1	95.62
9:56	9.2	97.22
9:57	9.1	98.08
9:58	9.2	95.2
9:59	8.9	97.84
10:00	8.8	95.32
10:01	9	91.96
10:02	8.7	99.84
10:03	9	96.76
10:04	9	97.97
10:05	8.8	102
10:06	9.1	96.56
10:07	9	98.97
10:08	9	96.32
10:09	9.1	95.76
10:10	8.8	99.31
10:11	9.1	95.2
10:12	9	95.87
10:13	8.9	98.75
10:14	9.1	96.3
10:15	9	100
10:16	8.8	96.26
10:17	9	94.84
10:18	8.7	98.87
10:19	8.8	95.98
10:20	8.7	96.05
10:21	8.9	99.84
10:22	9.3	98.21
10:23	9	101.27
10:24	9	96.65
10:25	9.2	96.38
10:26	9	98.6
10:27	9.1	95.03
10:28	9.1	94.96
10:29	9	98.61
10:30	9	95.59
10:31	8.8	97.98
10:32	8.7	96.71
10:33	8.9	91.93
10:34	8.7	98.19
10:35	8.9	96.83
10:36	9.2	95.71
10:37	8.9	99.59
10:38	9.1	95.69

10:39	9.1	101.02
10:40	9	98.85
10:41	9.1	96.52
10:42	8.9	98.99
10:43	9.1	94.16
10:44	8.9	95.4
10:45	8.9	98.92
10:46	9.1	96.73
10:47	9.1	100.56
10:48	9	96.84
10:49	9.1	93.78
10:50	8.8	98.86
10:51	9	95.65
10:52	8.8	95.76
10:53	8.9	98.42
10:54	9.3	96.1
10:55	9	99.37
10:56	8.8	97.25
10:57	8.9	98.34
10:58	8.8	100.07
10:59	9	95.15
11:00	9.2	96.48
11:01	9.1	97.92
11:02	9.1	95.97
11:03	8.9	98.99
11:04	8.8	96.17
11:05	9	91.85
11:06	8.8	98.87
11:07	8.9	96.71
11:08	9.1	95.64
11:09	8.8	101.18
11:10	9.1	95.14
11:11	9.1	99.88
11:12	9.1	95.1
11:13	9.3	94.98
11:14	9	100.44
11:15	9.3	97.57
11:16	9.4	95.08
11:17	9.3	99.08
11:18	9.5	96.41
11:19	9.5	100.93
11:20	9.2	96.46
11:21	9.4	95.59
11:22	9.1	99.53
11:23	9.2	95.59
11:24	8.9	95.33
11:25	8.9	97.19

11:26	9.3	93.83
11:27	9.1	98.87
11:28	9	94.36
11:29	9.2	93.41
11:30	9	96.45
11:31	9.2	93.38
11:32	9.4	92.76
11:33	9.2	98.06
11:34	9.3	91.8
11:35	9.1	97.69
11:36	9	95.41
11:37	9.2	90.4
11:38	9	97.97
11:39	9	93.6
11:40	9	92.28
11:41	8.8	99.8
11:42	9	93.93
11:43	9.1	98.46
11:44	9.1	95.66
11:45	9.2	94.04
11:46	8.7	96.37
11:47	21.1	92.9
11:48	20.9	91.18
11:49	20.9	98.72
11:50	20.9	96.76
11:51	20.9	99.46
11:52	20.9	94.56
11:53	21	92.55
11:54	20.9	96.64
11:55	20.1	93.64
11:56	9.7	93.41
11:57	8.8	97.39
11:58	9.2	93.08
11:59	8.9	97.94
12:00	8.8	94.63

K21 Kiln Stack

7/18/2015	Stk O2 %	kscfm (dry)
9:20	19.1	78.02
9:21	10.9	78.76
9:22	9.4	81.4
9:23	9.2	80.09
9:24	9.4	82.02
9:25	9.3	77.14
9:26	9	71.05
9:27	9.1	85.13
9:28	9.1	82.34
9:29	9	86.06
9:30	9	84.44
9:31	8.9	77.37
9:32	9.1	82.65
9:33	9.2	79.69
9:34	9	80.39
9:35	9.1	82.72
9:36	9	81.17
9:37	9	81.7
9:38	9.1	80.46
9:39	8.9	78.66
9:40	9	82.27
9:41	9	81.72
9:42	8.9	80.27
9:43	9	83.21
9:44	9	79.53
9:45	8.9	79.71
9:46	9.1	82.68
9:47	9	76.98
9:48	9	81.56
9:49	8.9	82.59
9:50	8.8	80.21
9:51	9.1	84.32
9:52	9.1	79.42
9:53	9.1	80.52
9:54	9.1	81.54
9:55	8.9	80.14
9:56	9.1	83.42
9:57	9.1	79.26
9:58	8.9	68.78
9:59	9	85.35
10:00	9.1	85.49
10:01	9	85.03
10:02	9	85.75
10:03	8.8	77.93
10:04	8.9	80.96

10:05	9.1	80.13
10:06	9	79.73
10:07	9.1	81.75
10:08	9	80.75
10:09	8.8	81.91
10:10	8.9	80.94
10:11	8.7	77.44
10:12	8.9	82.62
10:13	9	79.25
10:14	8.9	77.76
10:15	9	84.08
10:16	8.9	80.3
10:17	8.8	80.74
10:18	9	81.08
10:19	9	76.75
10:20	9	81.9
10:21	9.1	83.84
10:22	8.9	80.43
10:23	9	84.46
10:24	9	80.54
10:25	9	79.8
10:26	9.1	85.43
10:27	9	81.11
10:28	9.2	83.86
10:29	9.1	80.52
10:30	8.9	68.31
10:31	9	83.65
10:32	9.1	81.6
10:33	9	85.15
10:34	9.1	85.58
10:35	8.9	78.93
10:36	9	83.25
10:37	9.2	79.56
10:38	9	80.73
10:39	9.1	83.17
10:40	9	79.25
10:41	8.9	82.83
10:42	9.1	81.99
10:43	8.9	79.21
10:44	9	82.33
10:45	9.1	79.57
10:46	9	79.32
10:47	9	84.43
10:48	9	81.38
10:49	8.9	82.53
10:50	9	81.56
10:51	9	79.2

10:52	8.9	82.92
10:53	9	81.54
10:54	8.9	79.19
10:55	9.1	85.55
10:56	9.2	81.05
10:57	9.1	81.68
10:58	9.1	83.56
10:59	9	81.85
11:00	9.2	84.56
11:01	9.3	79.57
11:02	9.1	68.97
11:03	9.1	84.77
11:04	9.1	84.25
11:05	8.9	84.77
11:06	9	85.57
11:07	8.9	79.43
11:08	9.1	84.06
11:09	9.3	79.26
11:10	9.1	79.95
11:11	9.1	85.24
11:12	9.1	79.57
11:13	9	82.07
11:14	9.2	81.62
11:15	9	77.75
11:16	9.1	81.11
11:17	9.2	78.74
11:18	9.1	78.55
11:19	9.1	82.79
11:20	9.1	80.59
11:21	9	79.9
11:22	9.2	80.67
11:23	9.1	77.82
11:24	9.1	83.51
11:25	9.1	82.65
11:26	8.9	78.6
11:27	9.1	84.53
11:28	9.1	79.14
11:29	9.1	74.6
11:30	9.1	84.2
11:31	9	81.85
11:32	9.1	85.35
11:33	9.1	79.19
11:34	8.9	69.25
11:35	9	83.99
11:36	9.1	82.39
11:37	9	85.31
11:38	9.1	83.7

11:39	8.8	78.46
11:40	8.9	81.65
11:41	9.2	78.36
11:42	9.1	79.14
11:43	9.1	83.15
11:44	9	76.34
11:45	8.9	78.99
11:46	9	80.63
11:47	8.8	82.49
11:48	8.8	85.12
11:49	9	82.91
11:50	8.8	80.01
11:51	8.8	80.77
11:52	8.8	77.27
11:53	8.7	77.43
11:54	8.8	83.07
11:55	8.7	77.79
11:56	8.7	79.4
11:57	8.8	79.42
11:58	8.7	78.09
11:59	8.8	83.68
12:00	8.9	78.26
12:01	8.7	75.31
12:02	8.8	84.46
12:03	8.8	79.64
12:04	9	83.24
12:05	9	1.49
12:06	8.8	51.15
12:07	8.8	81.01
12:08	8.8	82.02
12:09	8.7	83.09
12:10	20.2	83.22
12:11	21.4	76.41
12:12	21.4	77.45
12:13	21.4	78.34
12:14	21.4	76.54
12:15	21.4	81.3
12:16	21.4	78.37
12:17	21.4	79.79
12:18	21.3	77.13
12:19	21.4	77.94
12:20	18.6	78.68
12:21	10.5	80.22
12:22	9.1	77.33
12:23	9	80.59
12:24	9.1	78.07
12:25	8.9	77.69

12:26	9	81.47
12:27	9	75.63
12:28	8.8	79.18
12:29	8.9	77.97
12:30	8.9	78.84
12:31	9	83
12:32	9	77.59
12:33	8.9	76.37
12:34	8.9	82.47
12:35	8.8	79.29
12:36	9	78.6
12:37	9.1	78.47
12:38	8.9	69.19
12:39	8.9	81.48
12:40	9.1	81.16
12:41	9	84.87
12:42	9.1	83.15
12:43	8.9	79.13
12:44	9	79.72
12:45	9.2	81.97
12:46	9.1	78.85
12:47	9	82.68
12:48	9.1	79.8
12:49	9	80.91
12:50	9.2	79.01
12:51	9	76.16
12:52	8.9	77.77
12:53	9.1	79.41
12:54	8.9	76.16
12:55	9	80.73

WGS		
8/13/2015	Stk O2 %	kscfm (dry)
10:30	6.3	346.3
10:31	6.3	335.39
10:32	6.4	342.78
10:33	6.4	336.32
10:34	6.3	339.24
10:35	6.3	342.01
10:36	6.3	334.01
10:37	6.4	342.5
10:38	6.4	335.69
10:39	6.3	334.51
10:40	6.3	341.95
10:41	6.2	330.22
10:42	6.3	346.49
10:43	6.3	334.13
10:44	6.3	344.19
10:45	6.4	339.98
10:46	6.3	336.67
10:47	6.4	342.91
10:48	6.3	336.91
10:49	6.4	340.17
10:50	6.3	333.63
10:51	6.2	340.84
10:52	6.2	339.95
10:53	6.3	340.8
10:54	6.3	344.83
10:55	6.4	334.97
10:56	6.4	341.61
10:57	6.3	331.81
10:58	6.4	332.77
10:59	6.4	340.88
11:00	6.3	335.27
11:01	6.4	345.75
11:02	6.4	332.77
11:03	6.4	336.11
11:04	6.5	340.03
11:05	6.4	332.25
11:06	6.5	343.82
11:07	6.4	327.63
11:08	6.5	337.71
11:09	6.4	328.55
11:10	6.3	336.04
11:11	6.4	337.79
11:12	6.3	334.13
11:13	6.4	340.48
11:14	6.4	329.73

11:15	6.4	335.65
11:16	6.4	329.42
11:17	6.3	337.45
11:18	6.4	340.35
11:19	6.4	332.38
11:20	6.6	336.55
11:21	6.5	329.29
11:22	8.4	332.68
11:23	19.4	339.33
11:24	21.3	330.93
11:25	21.6	340.83
11:26	21.6	329.17
11:27	21.5	338.69
11:28	21.4	334.37
11:29	21.4	330.85
11:30	21.3	337.85
11:31	14.8	331.59
11:32	8.3	337.61
11:33	6.9	329.31
11:34	6.3	333.75
11:35	6.3	338.37
11:36	6.3	334.24
11:37	6.4	342.48
11:38	6.3	333.98
11:39	6.2	338.45
11:40	6.2	328.72
11:41	6.3	336.43
11:42	6.3	337.29
11:43	6.3	327.63
11:44	6.4	339.4
11:45	6.3	332.83
11:46	6.2	341.37
11:47	6.3	335.28
11:48	6.3	328.1
11:49	6.3	335.7
11:50	6.2	329.97
11:51	6.3	334.61
11:52	7.3	331.88
11:53	8	336.68
11:54	7.5	338.37
11:55	6.9	328.85
11:56	6.7	332.67
11:57	6.5	330.83
11:58	6.4	331.23
11:59	6.5	335.96
12:00	6.4	333.47
12:01	6.5	336.31

12:02	6.4	333.26
12:03	6.4	341.49
12:04	6.4	336.76
12:05	6.4	338.29
12:06	6.4	332.92
12:07	6.4	328.44
12:08	6.4	338.66
12:09	6.3	329.05
12:10	6.3	339.79
12:11	6.3	332.52
12:12	6.3	332.63
12:13	6.4	336.77
12:14	6.4	330.06
12:15	6.4	338.05
12:16	6.4	336.26
12:17	6.3	333.9
12:18	6.4	331.88
12:19	6.2	331.59
12:20	6.3	337.02
12:21	6.2	332.93
12:22	6.3	339.68
12:23	6.3	333.25
12:24	6.2	335.91
12:25	6.3	331.71
12:26	6.2	327.33
12:27	6.2	337.17
12:28	6.2	331.71
12:29	6.3	338.38
12:30	6.4	331.18
12:31	6.4	329.73
12:32	6.4	343.03
12:33	6.3	327.78
12:34	6.3	340.78
12:35	6.3	329.62
12:36	6.3	24.52
12:37	6.2	232.83
12:38	6.2	333.22
12:39	6.3	339.4
12:40	6.3	329.42
12:41	6.3	331.51
12:42	6.3	333.33
12:43	6.1	331.13
12:44	6.2	333.79
12:45	6.2	332.42
12:46	6.2	339.79
12:47	6.3	331.08
12:48	6.3	332.79

12:49	6.3	330.14
12:50	6.2	329.9
12:51	6.2	337.5
12:52	6.2	328.9
12:53	6.2	337.79
12:54	6.2	333.59
12:55	6.2	332.37
12:56	6.3	335.97
12:57	6.3	327.76
12:58	6.3	336.46
12:59	6.2	323.89
13:00	6.2	334.68
13:01	6.2	335.66
13:02	6.1	335.2
13:03	6.2	341.66
13:04	6.2	333.93
13:05	6.2	334.16
13:06	6.2	332.37
13:07	6.2	330.02
13:08	6.3	338.02
13:09	6.2	326.5
13:10	6.2	338.91
13:11	6.3	328.8
13:12	6.3	333.51
13:13	6.3	335.6
13:14	6.2	335.83
13:15	6.3	340.28
13:16	6.3	329.83
13:17	6.3	339.21
13:18	6.3	327.76
13:19	6.3	333.1
13:20	6.3	334.92
13:21	6.3	332
13:22	6.3	341.99
13:23	6.2	328.1
13:24	6.3	335.19
13:25	6.3	335.67
13:26	6.2	332.21
13:27	6.3	337.82
13:28	6.3	328.8
13:29	6.4	340.05
13:30	6.3	331.59
13:31	6.3	336.16
13:32	6.5	334.12
13:33	6.4	331.03
13:34	6.4	333.42
13:35	6.4	329.21

13:36	6.4	333.34
13:37	6.4	329.99
13:38	6.4	334.22
13:39	6.4	334.23
13:40	6.4	333.48
13:41	6.3	339.33
13:42	6.3	333.12
13:43	6.3	337.5
13:44	6.3	339.26
13:45	6.3	327.6
13:46	6.3	338.92
13:47	6.3	328.11
13:48	6.3	340.19
13:49	6.3	337.09
13:50	6.2	327.12
13:51	6.3	332.52
13:52	6.2	327.46
13:53	6.3	335.1
13:54	6.2	332
13:55	6.2	335.14
13:56	6.3	337.78
13:57	6.1	332.42
13:58	6.2	340.39
13:59	6.3	333.52
14:00	6.3	337.72
14:01	6.3	332.82
14:02	6.2	334.02
14:03	6.2	333.22
14:04	6.2	332.17
14:05	6.2	342.23
14:06	6.3	334.19
14:07	6.3	336.36
14:08	6.3	332.23
14:09	6.2	331.45
14:10	6.2	334.26
14:11	6.2	328.98
14:12	6.2	339.7
14:13	6.1	337.93
14:14	6.2	337.85
14:15	6.3	340.22
14:16	6.2	331.23
14:17	6.2	341.15
14:18	6.2	333.41
14:19	6.2	343.72
14:20	6.2	337.65
14:21	6.1	335.7
14:22	10	341.36

14:23	19.5	333.32
14:24	21.1	342.37
14:25	21.3	330.2
14:26	21.4	337.07
14:27	21.4	331.77
14:28	21.4	332.01
14:29	21.4	339.37
14:30	21.2	335.97
14:31	14.6	343.99
14:32	8	338.29
14:33	6.7	337.03
14:34	6.3	340.67
14:35	6.2	337.13
14:36	6.2	344.53
14:37	6.1	337.29
14:38	6.2	335.67
14:39	6.3	339.37
14:40	6.2	331.24
14:41	6.2	343.15
14:42	6.2	332.04
14:43	6.2	340.23
14:44	6.3	331.68
14:45	6.2	338.13
14:46	6.3	340.01
14:47	6.3	337.03
14:48	6.3	342.63
14:49	6.3	339.9
14:50	6.3	342.03
14:51	6.3	337.25
14:52	6.3	337.79
14:53	6.3	339.68
14:54	6.3	336.58
14:55	6.4	342.06
14:56	6.4	331.78
14:57	6.2	338.68
14:58	6.2	341.42
14:59	6.1	335.56
15:00	6.1	341.63
15:01	6.1	332.27
15:02	6.1	335.75
15:03	6.1	338.83
15:04	6	334.67
15:05	9	342.83
15:06	19.5	334.02
15:07	20.4	341.87
15:08	14	333.05
15:09	7.8	340.83

15:10	6.7	344.12
15:11	6.2	337.85
15:12	6.3	342.59
15:13	6.2	332.81
15:14	6.1	338.75
15:15	6.1	337.43
15:16	6.1	341.13
15:17	6.1	340.23
15:18	6.2	330.75
15:19	6.3	339.54
15:20	6.2	330.64
15:21	6.1	336.23
15:22	6.1	337.08
15:23	6.1	335.98
15:24	6.2	348.91
15:25	6.2	334.09
15:26	6.2	340.22
15:27	6.2	338.48
15:28	6.2	335.61
15:29	6.2	341.35
15:30	6.1	333.35
15:31	6.2	339.39
15:32	6.1	332.9
15:33	6.1	339.93
15:34	6.2	336.55
15:35	6.2	335.92
15:36	6.3	24.14
15:37	6.2	226.67
15:38	6.2	337.21
15:39	6.2	333.13
15:40	6.1	341.8
15:41	6.1	338.34
15:42	6.1	333.62
15:43	6.2	341.3
15:44	6.1	332.5
15:45	6.1	335.96
15:46	6.1	333.2
15:47	6.1	339.02
15:48	6.2	342.23
15:49	6.1	336.53
15:50	6.2	339.61
15:51	6.2	334.99
15:52	6.2	334.99
15:53	6.3	339.04
15:54	6.2	332.6
15:55	6.2	344.46
15:56	6.1	332.18

15:57	6.1	341.48
15:58	6.2	339.63
15:59	6.2	335.03
16:00	6.3	341.32
16:01	6.2	334.28
16:02	6.1	339.25
16:03	6.2	333.84
16:04	6.2	343.22
16:05	6.2	340.58
16:06	6.3	333.59
16:07	6.3	339.05
16:08	6.2	329.62
16:09	6.3	339.2
16:10	6.3	333.67
16:11	6.3	334.19
16:12	6.3	337.7
16:13	6.2	331.07
16:14	6.3	340.36
16:15	6.1	335.62
16:16	6.2	340.7
16:17	6.3	338.97
16:18	6.2	333.56
16:19	6.3	336.92
16:20	6.2	331.06



Attachment B

One-minute averages from the sulfur dioxide, oxygen and flow continuous emission monitors on FG KG6 as collected by the Plant Data Acquisition System during the RATA testing that occurred during July 14, 2015.

Start: 07-14-2015 10:20:00
 Stop: 07-14-2015 11:30:00
 Kiln: KG6 WGS

Time	O2-Stack %	h2o_% %_wet	SO2_ppm PPM_oma	Air_flow kwscfm	SO2_ppm_SO2_lbhr PPM_oma_lb_hr
07-14-2015 10:21				338.51	
07-14-2015 10:22				338	
07-14-2015 10:23				338.42	
07-14-2015 10:24				330.89	
07-14-2015 10:25		13.43		333.51	
07-14-2015 10:26	6.8	13.12	25.54	334.8	29.39687 85.17
07-14-2015 10:27	6.8	13.2	22.2	331.3	25.57604 73.25
07-14-2015 10:28	6.9	13.2	24.68	335.07	28.43318 82.36
07-14-2015 10:29	6.8	13.56	22.89	329.55	26.4808 75.13
07-14-2015 10:30	6.8	13.53	31.51	336.48	36.44038 105.6
07-14-2015 10:31	6.7	13.5	36.3	332.69	41.96532 120.28
07-14-2015 10:32	6.7	13.71	50.89	335.67	58.97555 170.14
07-14-2015 10:33	6.8	13.71	50.44	340.47	58.45405 171.05
07-14-2015 10:34	6.8	13.69	44.17	341.34	51.17599 150.17
07-14-2015 10:35	6.9	13.72	33.85	334.79	39.23273 112.87
07-14-2015 10:36	6.8	13.72	28.33	334.18	32.83496 94.29
07-14-2015 10:37	6.8	13.9	25.86	339.54	30.03484 87.45
07-14-2015 10:38	6.8	13.91	28.01	332.61	32.53572 92.79
07-14-2015 10:39	6.8	13.81	33.17	336.43	38.48474 111.15
07-14-2015 10:40	6.9	14.01	29.72	339.8	34.56216 100.58
07-14-2015 10:41	6.8	13.82	30.48	333.86	35.36783 101.35
07-14-2015 10:42	6.8	13.81	27.27	332.17	31.6394 90.22
07-14-2015 10:43	6.8	13.8	27.5	334.38	31.90255 91.59
07-14-2015 10:44	6.9	13.73	27.68	335.83	32.08531 92.59
07-14-2015 10:45	7.1	13.52	21.07	334.05	24.36401 70.1
07-14-2015 10:46	7	13.15	20.97	330.69	24.14508 69.07
07-14-2015 10:47	7	13.13	16.64	333.45	19.15506 55.26
07-14-2015 10:48	7	13.15	21.7	331.4	24.98561 71.63
07-14-2015 10:49	7	13.2	27.68	336.49	31.8894 92.77
07-14-2015 10:50	6.9	13.27	46.09	338.75	53.14193 155.51
07-14-2015 10:51	6.9	13.71	50.56	335.74	58.59312 169.07
07-14-2015 10:52	7	13.73	36.78	343.84	42.63359 125.96
07-14-2015 10:53	6.9	13.75	25.41	335.31	29.46087 84.86
07-14-2015 10:54	7	13.67	20.07	338.13	23.248 67.59
07-14-2015 10:55	7	13.37	22.92	333.87	26.45735 76.22
07-14-2015 10:56	7	13.48	28.03	337.17	32.39713 94.13
07-14-2015 10:57	7	13.55	28.78	333.64	33.29092 95.64
07-14-2015 10:58	7	13.57	29.17	337.91	33.74986 98.17
07-14-2015 10:59	7	13.6	31.71	338.58	36.70139 106.93
07-14-2015 11:00	6.9	13.58	59.09	331.84	68.37538 195.3
07-14-2015 11:01	7	13.56	58.16	337.77	67.28366 195.66
07-14-2015 11:02	7	13.61	52.36	331.6	60.60887 172.93
07-14-2015 11:03	7.1	13.54	62.82	329.66	72.65788 206.26
07-14-2015 11:04	7.1	13.6	77.87	330.22	90.12731 256.11
07-14-2015 11:05	7.1	13.37	92.67	331.95	106.9722 306.39
07-14-2015 11:06	7	13.59	106.31	337.01	123.0297 356.84
07-14-2015 11:07	7	13.61	101.77	331.92	117.803 336.44
07-14-2015 11:08	6.9	13.87	75.14	332.82	87.24022 249.08
07-14-2015 11:09	7	13.66	73.1	337.49	84.66528 245.72
07-14-2015 11:10	7	13.65	69.55	340.25	80.5443 235.7
07-14-2015 11:11	7.1	13.64	60.56	332.73	70.12506 200.7
07-14-2015 11:12	7.1	13.67	55.88	333.22	64.72837 185.46
07-14-2015 11:13	7.1	13.52	65.22	336.68	75.41628 218.7
07-14-2015 11:14	7	13.57	63.25	332.49	73.18061 209.46
07-14-2015 11:15	7	13.48	49.08	334.73	56.72677 163.63
07-14-2015 11:16	7.1	13.35	28.78	339.8	33.21408 97.4
07-14-2015 11:17	7	13.04	26.17	334.59	30.0943 87.21
07-14-2015 11:18	7.1	13.57	32.88	338.43	38.04235 110.83
07-14-2015 11:19	7.1	13.47	68.27	331.78	78.89749 225.6
07-14-2015 11:20	7.1	13.76	75.07	335.15	87.04777 250.59
07-14-2015 11:21	7	13.59	75.15	332.61	86.9691 248.96
07-14-2015 11:22	7	13.85	73.99	333.83	85.88508 246.01
07-14-2015 11:23	7	13.86	87.4	333.33	101.4627 290.17
07-14-2015 11:24	6.9	14.06	123	332.7	143.1231 407.58
07-14-2015 11:25	7	14.06	88.55	337.33	103.037 297.51
07-14-2015 11:26	7	14.06	53.97	334.19	62.79963 179.64
07-14-2015 11:27	7	14.03	31.21	336.38	36.30336 104.56
07-14-2015 11:28	7	14.01	30.25	337.58	35.17851 101.71
07-14-2015 11:29	7	13.97	30.03	334.56	34.90643 100.07
07-14-2015 11:30	7	14.09	28.91	333.19	33.6515 95.94
	6.952308	13.62152	46.22354	335.102	53.53675 154.14
	451.9	899.02	3004.53	23457.14	3479.889 10019.1

Start: 07-14-2015 13:40:00
 Stop: 07-14-2015 14:40:00
 Kiln: KG6 WGS

Time	O2-Stack %	h2o_% %_wet	SO2_ppm PPM_oma	Air_flow kwscfm	SO2_ppm_PPM_oma	SO2_lbhr lb_hr
07-14-2015 13:40	6.8	14.1	81.67	333.43	95.07567	271.22
07-14-2015 13:41	6.8	14.45	57	337.46	66.6277	191.58
07-14-2015 13:42	6.8	14.29	38.69	331.34	45.14059	127.68
07-14-2015 13:43	6.7	14.4	40.42	333.76	47.21963	134.37
07-14-2015 13:44	6.7	14.39	53.14	335.99	62.07219	177.83
07-14-2015 13:45	6.7	14.37	70.16	331.22	81.9339	231.45
07-14-2015 13:46	6.8	14.28	73.71	339.38	85.98927	249.16
07-14-2015 13:47	6.8	14.16	60.42	332.09	70.38677	199.85
07-14-2015 13:48	6.9	13.89	56.67	338.23	65.81117	190.91
07-14-2015 13:49	6.9	13.98	52.23	339.66	60.71844	176.69
07-14-2015 13:50	6.9	14.13	52.13	338.98	60.70805	176
07-14-2015 13:51	6.9	14.07	40.31	336.91	46.91028	135.27
07-14-2015 13:52	6.9	14.02	48.62	334.61	56.54803	162.04
07-14-2015 13:53	6.8	13.69	45.38	331.23	52.57792	149.71
07-14-2015 13:54	6.8	13.98	41.06	333.94	47.73309	136.57
07-14-2015 13:55	6.7	13.79	66.15	335.3	76.73124	220.91
07-14-2015 13:56	6.9	14.05	96.42	336.51	112.1815	323.17
07-14-2015 13:57	6.9	13.97	65.64	334.45	76.29897	218.65
07-14-2015 13:58	7	14.02	46.73	334.98	54.34985	155.91
07-14-2015 13:59	7	13.92	37.84	328.91	43.95911	123.96
07-14-2015 14:00	6.9	13.94	45.58	334.26	52.96305	151.75
07-14-2015 14:01	6.9	13.79	39.76	331.04	46.11994	131.1
07-14-2015 14:02	6.8	13.87	56.39	334.79	65.4708	188.03
07-14-2015 14:03	6.8	13.66	70.06	336.6	81.14431	234.88
07-14-2015 14:04	6.8	13.58	81.82	333.85	94.67716	272.06
07-14-2015 14:05	6.9	13.56	90.98	337.87	105.2522	306.16
07-14-2015 14:06	6.9	13.58	100.18	333.56	115.9222	332.82
07-14-2015 14:07	6.9	13.82	102.75	335.7	119.2272	343.55
07-14-2015 14:08	6.9	14.01	99.98	335.17	116.2693	333.76
07-14-2015 14:09	6.8	14.04	99.67	333.96	115.9493	331.53
07-14-2015 14:10	6.9	13.88	90.87	339.01	105.5156	306.83
07-14-2015 14:11	6.9	14	36.68	328.56	42.65116	120.03
07-14-2015 14:12	6.9	13.94	32.54	329.4	37.81083	106.76
07-14-2015 14:13	6.8	13.98	34.69	333.16	40.32783	115.11
07-14-2015 14:14	6.9	14.02	50.41	337.1	58.62991	169.25
07-14-2015 14:15	6.9	14.01	49.44	335.39	57.49506	165.15
07-14-2015 14:16	6.9	14	48.87	334.32	56.82558	162.73
07-14-2015 14:17	6.9	13.94	50.95	335.07	59.20288	170.04
07-14-2015 14:18	6.8	13.96	70.01	334.11	81.36913	232.97
07-14-2015 14:19	6.7	13.86	90.82	331.18	105.433	299.57
07-14-2015 14:20	6.8	14.13	113.13	332.76	131.7457	374.95
07-14-2015 14:21	6.9	13.51	128.61	333.39	148.6993	427.06
07-14-2015 14:22	6.9	13.52	95.11	336.37	109.9792	318.64
07-14-2015 14:23	7	13.53	76.5	329.34	88.46999	250.94
07-14-2015 14:24	6.9	13.91	65.64	333.21	76.24579	217.84
07-14-2015 14:25	6.8	14.02	58.64	334.6	68.20191	195.42
07-14-2015 14:26	6.8	14.03	55	334.58	63.97581	183.28
07-14-2015 14:27	6.9	13.94	57.02	329.83	66.2561	187.32
07-14-2015 14:28	6.9	13.95	60.24	334.97	70.00581	200.98
07-14-2015 14:29	6.9	13.93	71.82	340.96	83.44371	243.9
07-14-2015 14:30	6.8	14.17	75.68	331.2	88.1743	249.65
07-14-2015 14:31	6.8	14.08	97.99	337.26	114.048	329.16
07-14-2015 14:32	6.9	13.91	97.78	334.88	113.5788	326.14
07-14-2015 14:33	6.9	13.9	90.04	333.25	104.5761	298.86
07-14-2015 14:34	6.9	14.04	77.36	336.84	89.99535	259.54
07-14-2015 14:35	6.8	14.15	66.1	331.94	76.99476	218.53
07-14-2015 14:36	6.8	13.92	94.05	341.27	109.2588	319.68
07-14-2015 14:37	6.7	14.22	123.83	335.59	144.3577	413.9
07-14-2015 14:38	6.8	14.27	114.68	335.24	133.7688	382.92
07-14-2015 14:39	6.8	14.28	93.29	337.41	108.8311	313.51
	6.848333	13.98	69.65583	334.6228	80.96394	232.3205
	410.9	838.8	4179.35	20077.37	4857.837	13939.23

Start: 07-14-2015 15:20:00
 Stop: 07-14-2015 16:20:00
 Kiln: KG6 WGS

Time	O2-Stack %	h2o_% %_wet	SO2_ppm PPM_oma	Air_flow kwsqfm	SO2_ppm_SO2_lbhr PPM_oma_lb_hr
07-14-2015 15:21	6.9	13.74	41.62	330.11	48.24948 136.84
07-14-2015 15:22	6.9	13.84	22.78	327.25	26.43918 74.25
07-14-2015 15:23	6.8	13.65	24.95	333.32	28.89404 82.83
07-14-2015 15:24	6.9	13.67	33.03	333.74	38.26016 109.79
07-14-2015 15:25	6.8	13.67	35.6	329.22	41.23711 116.73
07-14-2015 15:26	6.9	13.69	36.43	327.6	42.20832 118.87
07-14-2015 15:27	7	13.61	35.49	327.87	41.08114 115.9
07-14-2015 15:28	7	13.29	58.79	329.5	67.80072 192.94
07-14-2015 15:29	6.9	13.09	85.78	329.23	98.6998 281.28
07-14-2015 15:30	6.8	13.14	88.25	332.11	101.6003 291.91
07-14-2015 15:31	6.8	13.28	90.37	329.64	104.2089 296.7
07-14-2015 15:32	7	13.12	86.51	334.77	99.57413 288.45
07-14-2015 15:33	6.8	13.39	85.71	332.01	98.96086 283.43
07-14-2015 15:34	6.9	13.67	69.5	331.36	80.50504 229.37
07-14-2015 15:35	6.9	13.44	53.95	329.99	62.32671 177.32
07-14-2015 15:36	6.9	13.5	45.73	337.82	52.86705 153.87
07-14-2015 15:37	6.8	13.41	36.12	328.62	41.71382 118.22
07-14-2015 15:38	6.9	13.44	35.93	331.38	41.50878 118.59
07-14-2015 15:39	6.9	13.47	36.12	330.29	41.74275 118.82
07-14-2015 15:40	6.9	13.61	54.2	332.65	62.73874 179.58
07-14-2015 15:41	6.9	13.59	55.33	330.65	64.03194 182.22
07-14-2015 15:42	6.9	13.43	71.47	329.16	82.55747 234.31
07-14-2015 15:43	6.9	13.46	61.96	334.13	71.59695 206.2
07-14-2015 15:44	6.9	13.71	58.76	326.68	68.09596 191.19
07-14-2015 15:45	6.9	13.37	87.05	331.96	100.4848 287.82
07-14-2015 15:46	6.9	13.62	102.77	329.73	118.9743 337.51
07-14-2015 15:47	6.9	13.43	110.92	326.88	128.1275 361.12
07-14-2015 15:48	7	13.15	102.53	332.34	118.0541 339.39
07-14-2015 15:49	7	13.32	61.76	326.32	71.25058 200.73
07-14-2015 15:50	7	13.27	45.73	323.36	52.72685 147.28
07-14-2015 15:51	7	13.23	32.7	326.09	37.68584 106.2
07-14-2015 15:52	7	13.22	32.12	325.32	37.01314 104.07
07-14-2015 15:53	6.9	13.23	54.35	327.01	62.63686 177.02
07-14-2015 15:54	6.8	13.36	61.74	334.59	71.26039 205.75
07-14-2015 15:55	6.8	13.39	68.6	327.52	79.20563 223.78
07-14-2015 15:56	6.9	13.52	84.93	331.65	98.20768 280.54
07-14-2015 15:57	6.8	13.37	90.09	330.29	103.994 296.37
07-14-2015 15:58	6.9	13.57	100.41	333.29	116.1749 333.32
07-14-2015 15:59	6.9	13.76	105.72	331.8	122.5881 349.38
07-14-2015 16:00	6.9	13.67	100.5	335.77	116.4138 336.1
07-14-2015 16:01	6.9	13.54	90.95	325.14	105.1932 294.53
07-14-2015 16:02	6.8	13.64	87.2	330.55	100.9727 287.09
07-14-2015 16:03	6.8	13.56	80.29	328.97	92.88524 263.07
07-14-2015 16:04	6.8	13.8	72.55	331.73	84.16473 239.71
07-14-2015 16:05	6.8	13.61	73.83	334.35	85.46128 245.86
07-14-2015 16:06	6.8	13.83	71.72	331.25	83.23082 236.62
07-14-2015 16:07	6.8	13.78	64.06	333.94	74.29831 213.07
07-14-2015 16:08	6.8	13.82	64.05	326.41	74.32119 208.23
07-14-2015 16:09	6.9	13.8	66.37	332	76.99536 219.47
07-14-2015 16:10	6.8	13.94	64.5	334.57	74.94771 214.93
07-14-2015 16:11	6.8	13.68	94.1	331.15	109.013 310.37
07-14-2015 16:12	6.8	14.02	101.82	335.34	118.4229 340.08
07-14-2015 16:13	6.8	14	93.7	332.5	108.9535 310.31
07-14-2015 16:14	6.9	13.78	79.08	328.51	91.71886 258.75
07-14-2015 16:15	6.9	13.76	70.84	332.63	82.14286 234.69
07-14-2015 16:16	6.9	13.98	44.42	331.19	51.63915 146.53
07-14-2015 16:17	7	13.4	32.46	327.32	37.48268 105.82
07-14-2015 16:18	6.9	13.24	33.51	333.77	38.62379 111.4
07-14-2015 16:19	6.9	13.3	33.65	326.69	38.812 109.49
07-14-2015 16:20	6.9	13.69	60.02	329.68	69.54003 197.08
	6.881667	13.54267	65.42367	330.5118	75.67529 215.5515
	412.9	812.56	3925.42	19830.71	4540.517 12933.09