

January 30, 2017

Via Electronic Mail

Marc A. Lovallo
Environmental Specialist
Compliance Assurance, Northeast District
Florida Dept of Environmental Protection
7777 Baymeadows Way W, Suite 100
Jacksonville, FL 32256

**Re: Gainesville Renewable Energy Center, LLC (GREC)
Air Permit No. 0010131-006-AV (PSD-FL-411)
ORIS: 57241
Q4 2016 Excess Emission Reports, Semi-Annual Data Assessment & Title V Deviation
Monitoring Reports, Q3 Revised Reports**

Dear Mr. Lovallo:

Below please find a summary of our 4th Quarter 2016 excess emission reports:

<u>Report</u>	<u>Duration/Comment</u>
NOx lb/mmBtu 30-day Summary	Compliant
CO lb/mmBtu 30-day Summary	Compliant
NOX & CO lb/mmBtu Excess Emissions	26 hours
SO2 lb/mmBtu 24-hr Summary	Compliant
Opacity 6 minute Summary	Compliant
NOX, SO2 TPY 12-Month Rolling	Compliant
NOX lb/MW hr 30 day Summary	Compliant
SO2 lb/MW hr 30 day Summary	Compliant
Steam Flow Production Summary	Compliant

The detailed reports are attached for your review. If you have any questions or require additional information, please contact the Plant Engineer, Ali Leaphart, at (386) 315-8019 or me at (617) 904-3100, ext. 122.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Sincerely,



Leonard J. Fagan
Vice President of Engineering
GREC Asset Manager

LJF/cw
enclosures

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: NOx lb/MMBtu 30 Day EPA Report

Emission Limitation: 0.070

Analyzer Make/Model: CAI 600

Analyzer Serial Number: Y08012

Reporting Period Dates: From 10/01/2016 to 12/31/2016 23:59:59

Company Name: Gainesville

Address: 11201 NW 13th Street

Gainesville, FL 32653

Process Unit Description: Biomass Boiler

Date of Last CEMS Certification or Audit: 11/6/2014

Total Source Operating Time in Reporting Period: 434 Hours

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable ¹
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	0	0.00 %
3. Calibration/QA	1	0.23 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	1	0.23 % ²

% Unavailable = CEMS Downtime during Source Operating Time/Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions ¹
1. Startup/Shutdown	0	0.00 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	0	0.00 % ²

% Excess Emissions = Total Duration of Excess Emissions/Source Operating Time x 100

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: CO lb/MMBtu 30 Day EPA Report

Emission Limitation: 0.080

Analyzer Make/Model: CAI 601

Analyzer Serial Number: Z01007

Reporting Period Dates: From 10/01/2016 to 12/31/2016 23:59:59

Company Name: Gainesville

Address: 11201 NW 13th Street
 Gainesville, FL 32653

Process Unit Description: Biomass Boiler

Date of Last CEMS Certification or Audit: 11/6/2014

Total Source Operating Time in Reporting Period: 434 Hours

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable ¹
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	0	0.00 %
3. Calibration/QA	1	0.23 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	1	0.23 % ²

% Unavailable = CEMS Downtime during Source Operating Time/Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions ¹
1. Startup/Shutdown	0	0.00 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	0	0.00 % ²

% Excess Emissions = Total Duration of Excess Emissions/Source Operating Time x 100

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

NOx & CO lb/MMBtu Excess Emissions – 4th Quarter, 2016

Startup/Shutdown Exclusions:

	<u>CO Hourly</u>	<u>NOx Hourly</u>	<u>Description</u>	<u>Corrective Action</u>
11/12	18 1800 – 1.716 1900 – 1.615 2000 – 1.41 2100 – 1.289 2200 – 1.206 2300 – 1.057 0000 – 0.929 0100 – 0.877 0200 – 0.661 0300 – 0.434 0400 – 0.265 0500 – 0.227 0600 – 0.168 0700 – 0.458 0800 – 0.467 0900 – 0.461 1000 – 0.408 1100 – 0.19 1200 - 1300 – 1400 - 1500 –	11 Common Hours 0.088 0.079 0.086 0.094 0.101 0.26 0.283 0.293 0.299 0.301 0.287 0.269 0.232 0.154 0.088	Cold Startup	Permit Condition: B.13.a
11/13	18			
11/17	7 1300 – 0.234 1400 – 0.143 1500 – 0.149 1600 – 0.16 1700 – 0.211 1800 – 0.184 1900 – 6	6 Common Hours 0.131 0.16 0.153 0.147 0.134 0.128 0.092 7	Warm Startup	Permit Condition: B.13.b

NOx & CO lb/MMBtu Excess Emissions – 4th Quarter, 2016

11/20	1	2100 – 0.826	Shutdown	Permit Condition: B.13.c
Total	26			

Malfunction:

	<u>CO</u> Hourly	<u>NOX</u> Hourly	<u>Description</u>	<u>Corrective Action</u>
Total				

Total Quarterly Excluded Hours = 26

Total 12-month Rolling Excluded Hours, Ending 4th Quarter = 100

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: SO2 lb/MMBtu 24 Hour EPA Report

Emission Limitation: 0.029

Analyzer Make/Model: CAI 600

Analyzer Serial Number: Z01006

Reporting Period Dates: From 10/01/2016 to 12/31/2016 23:59:59

Company Name: Gainesville

Address: 11201 NW 13th Street
 Gainesville, FL 32653

Process Unit Description: Biomass Boiler

Date of Last CEMS Certification or Audit: 11/6/2014

Total Source Operating Time in Reporting Period: 434 Hours

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable ¹
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	0	0.00 %
3. Calibration/QA	1	0.23 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	1	0.23 % ²

% Unavailable = CEMS Downtime during Source Operating Time/Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions ¹
1. Startup/Shutdown	0	0.00 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	0	0.00 % ²

% Excess Emissions = Total Duration of Excess Emissions/Source Operating Time x 100

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Opacity 6 Minute >10/20 EPA Report
 Emission Limitation: 10.00
 Analyzer Make/Model: DURAG D-R 290
 Analyzer Serial Number: 1220055
 Reporting Period Dates: From 10/01/2016 to 12/31/2016 23:59:59

Company Name: Gainesville
 Address: 11201 NW 13th Street
 Gainesville, FL 32653
 Process Unit Description: Boiler Opacity

Date of Last CEMS Certification or Audit: 11/6/2014
 Total Source Operating Periods: 4356 Periods

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable ¹
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	0	0.00 %
3. Calibration/QA	0	0.00 %
4. Other Known Causes	12	0.28 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	12	0.28 % ²

% Unavailable = CEMS Downtime during Source Operating Periods/Source Operating Periods x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions ¹
1. Startup/Shutdown	0	0.00 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	0	0.00 % ²

% Excess Emissions = Total Excess Emission Periods/Source Operating Periods x 100

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating periods or the total CMS downtime is 5 percent or greater of the total operating periods, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Opacity 6 Minute >20/27 EPA Report

Emission Limitation: 20.00

Analyzer Make/Model: DURAG D-R 290

Analyzer Serial Number: 1220055

Reporting Period Dates: From 10/01/2016 to 12/31/2016 23:59:59

Company Name: Gainesville

Address: 11201 NW 13th Street
 Gainesville, FL 32653

Process Unit Description: Boiler Opacity

Date of Last CEMS Certification or Audit: 11/6/2014

Total Source Operating Periods: 4356 Periods

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable ¹
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	0	0.00 %
3. Calibration/QA	0	0.00 %
4. Other Known Causes	12	0.28 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	12	0.28 % ²

% Unavailable = CEMS Downtime during Source Operating Periods/Source Operating Periods x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions ¹
1. Startup/Shutdown	0	0.00 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	0	0.00 % ²

% Excess Emissions = Total Excess Emission Periods/Source Operating Periods x 100

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating periods or the total CMS downtime is 5 percent or greater of the total operating periods, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

Boiler Opacity 6 Minute Downtime Report

Facility Name: Gainesville

Location: Gainesville, FL

Source: Opac

Parameter: OPACITY

Data in the Reporting Period: 10/01/2016 00:00 to 12/31/2016 23:59

Incid. No.	Start Date	End Date	Duration Periods	Reason	EPA Downtime Category	Corrective Action
1	10/21/2016 06:36	10/21/2016 06:41	1	Other Known Causes	Other Known Causes	Incomplete Period - Equipment Testing
2	10/21/2016 06:48	10/21/2016 06:53	1	Other Known Causes	Other Known Causes	Incomplete Period - Equipment Testing
3	11/08/2016 13:24	11/08/2016 13:29	1	Other Known Causes	Other Known Causes	Incomplete Period - Equipment Testing
4	11/08/2016 13:54	11/08/2016 13:59	1	Other Known Causes	Other Known Causes	Incomplete Period - Equipment Testing
5	11/08/2016 14:06	11/08/2016 14:11	1	Other Known Causes	Other Known Causes	Incomplete Period - Equipment Testing
6	11/12/2016 18:12	11/12/2016 18:17	1	Other Known Causes	Other Known Causes	Incomplete Period - Startup
7	11/17/2016 12:18	11/17/2016 12:29	2	Other Known Causes	Other Known Causes	Incomplete Period - Shutdown/Startup
8	11/20/2016 21:36	11/20/2016 21:41	1	Other Known Causes	Other Known Causes	Incomplete Period - Shutdown
9	12/05/2016 13:18	12/05/2016 13:23	1	Other Known Causes	Other Known Causes	Incomplete Period - Equipment Testing
10	12/05/2016 13:30	12/05/2016 13:35	1	Other Known Causes	Other Known Causes	Incomplete Period - Equipment Testing
11	12/19/2016 13:54	12/19/2016 13:59	1	Other Known Causes	Other Known Causes	Incomplete Period - Equipment Testing

Total Downtime in the Reporting Period = 12 Periods

Data Availability for this Reporting Period = 99.72 %

Total Operating Time in the Reporting Period = 4356 Periods

Monthly & 12-Month Rolling Report

Company: Gainesville Renewable Energy Center, LLC

11201 NW 13th Street

Gainesville, FL 32653

Source: EU-002

Data Group: All Data Groups

Report Name: Summary: Monthly and 12-Month Rolling
Totals

Start of Report: 1/1/2016 00:00

End of Report: 12/31/2016 23:59

	NOx Tons/month	SO2 Tons/month	NOx		SO2	
			12-Month Rolling	12-Month Rolling	12-Month Rolling	12-Month Rolling
1/01/2016 00:00	0.00	0.00	148.56	0.14		
2/01/2016 00:00	0.00	0.00	125.43	0.14		
3/01/2016 00:00	1.49	0.00	101.95	0.14		
04/01/2016 00:00	0.00	0.00	88.29	0.14		
05/01/2016 00:00	1.11	0.00	69.95	0.14		
06/01/2016 00:00	0.00	0.00	44.74	0.00		
07/01/2016 00:00	0.00	0.00	17.45	0.00		
08/01/2016 00:00	0.00	0.00	11.23	0.00		
09/01/2016 00:00	1.22	0.00	10.91	0.00		
10/01/2016 00:00	9.34	0.00	20.25	0.00		
11/01/2016 00:00	7.00	0.00	20.19	0.00		
12/01/2016 00:00	0.00	0.00	20.19	0.00		

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: NOx lb/MWhr 30 Day EPA Report

Emission Limitation: 1.00

Analyzer Make/Model: CAI 600

Analyzer Serial Number: Y08012

Reporting Period Dates: From 10/1/2016 to 12/31/2016 11:59:59 PM

Company Name: Gainesville

Address: 11201 NW 13th Street
Gainesville, FL 32653

Process Unit Description: Biomass Boiler

Date of Last CEMS Certification or Audit: 11/6/2014

Total Source Operating Time in Reporting Period: 434 Hours

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable ¹
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	0	0.00 %
3. Calibration/QA	6	1.38 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	6	1.38 % ²

% Unavailable = CEMS Downtime during Source Operating Time/Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions ¹
1. Startup/Shutdown	0	0.00 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	0	0.00 % ²

% Excess Emissions = Total Duration of Excess Emissions/Source Operating Time x 100

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: SO2 lb/MWhr 30 Day EPA Report

Emission Limitation: 1.40

Analyzer Make/Model: CAI 600

Analyzer Serial Number: Z01006

Reporting Period Dates: From 10/1/2016 to 12/31/2016 11:59:59 PM

Company Name: Gainesville

Address: 11201 NW 13th Street

Gainesville, FL 32653

Process Unit Description: Biomass Boiler

Date of Last CEMS Certification or Audit: 11/6/2014

Total Source Operating Time in Reporting Period: 434 Hours

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable ¹
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	0	0.00 %
3. Calibration/QA	6	1.38 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	6	1.38 % ²

% Unavailable = CEMS Downtime during Source Operating Time/Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions ¹
1. Startup/Shutdown	0	0.00 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	0	0.00 % ²

% Excess Emissions = Total Duration of Excess Emissions/Source Operating Time x 100

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

Steam Flow 4-HR Rolling Exceedance Report

Facility Name: Gainesville **Location:** Gainesville, FL
Source: BFB1
Parameter: STEAM **Limit:** 930

Data in the Reporting Period: 10/01/2016 00:00 to 12/31/2016 23:59

Inc. No.	Start Date	End Date	Duration	Average	EPA Category	Reason for Incident	Corrective Action
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No Incidents in the Reporting Period

Total Duration in the Reporting Period = 0 Hours
 Total Operating Time in the Reporting Period = 434 Hours

DATA ASSESSMENT REPORT Prepared in accordance with 40 CFR Part 60, Appendix F

Gainesville Renewable Energy Center LLC	Source Unit No.:	EU-002
11201 NW 13th Street	Pollutant:	NOx lb/MMBtu
Gainesville, FL 32653	Reporting Period:	4th Quarter 2016

CEMS Information

Manufacturer: California Analytical Instruments (CAI) Type: Dry extractive
 Model No. 600 Sampling Location: Stack
 Serial No. Y08012 Span Value: 120 ppm

Part I: Accuracy Assessment Results

A. Relative accuracy test audit for NOx in lb/MMBtu

1. Date of audit	11/6/2014
2. Reference method(s)	USEPA Method 7E
3. Average reference method value	0.06
4. Average CEMS Value	0.058
5. Absolute value of mean difference [d]	0.002
6. Confidence coefficient [CC]	0.0006
7. Percent relative accuracy (RA)	4.51%
8. EPA performance audit results	
a) Audit lot number	
b) Audit sample number	
c) Results (mg/dsm ³)	
d) Actual value (mg/dsm ³)*	
e) Relative error*	

* To be completed by the Agency.

B. Linearity Check for NOx in ppm

	Audit Point 1	Audit Point 2	Audit Point 3
1. Date of audit	10/10/2016	10/10/2016	11/6/2015
2. Cylinder ID number	AAL072617	AAL17536	CC152717
3. Date of certification	10/14/2013	10/11/2013	5/22/2015
4. Type of certification	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1
5. Certified audit value	30.3	66	108.9
6. CEMS response value	30.367	65.633	108.633
7. Accuracy	0.22%	0.56%	0.25%

C. Relative Accuracy Audit (RAA)

The facility does not perform relative accuracy audits.

D. Corrective action for excessive inaccuracy

There were no audit failures during the reporting period.

DATA ASSESSMENT REPORT *Prepared in accordance with 40 CFR Part 60, Appendix F*

Gainesville Renewable Energy Center LLC
11201 NW 13th Street
Gainesville, FL 32653

Source Unit No.: EU-002
Pollutant: NOx lb/MMBtu
Reporting Period: 4th Quarter 2016

Part II: Calibration Drift Assessment

A & B. Summary of out-of-control periods caused by excessive calibration drift

#	Beginning Date & Hour	Ending Date & Hour	Duration (hours)	Corrective Action
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				

DATA ASSESSMENT REPORT *Prepared in accordance with 40 CFR Part 60, Appendix F*

Gainesville Renewable Energy Center LLC	Source Unit No.:	EU-002
11201 NW 13th Street	Pollutant:	SO2 lb/MMBtu
Gainesville, FL 32653	Reporting Period:	4th Quarter 2016

CEMS Information

Manufacturer: California Analytical Instruments (CAI) Type: Dry extractive
 Model No. 600 Sampling Location: Stack
 Serial No. Z01006 Span Value: 40 ppm

Part I: Accuracy Assessment Results

A. Relative accuracy test audit for SO2 in lb/MMBtu

1. Date of audit	11/6/2014
2. Reference method(s)	USEPA Method 6C
3. Average reference method value	0.0000
4. Average CEMS Value	0.0000
5. Absolute value of mean difference [d]	0.0000
6. Confidence coefficient [CC]	0.0000
7. Percent relative accuracy (RA)	0.00%
8. EPA performance audit results	
a) Audit lot number	_____
b) Audit sample number	_____
c) Results (mg/dsm ³)	_____
d) Actual value (mg/dsm ³)*	_____
e) Relative error*	_____

* To be completed by the Agency.

B. Linearity Check for SO2 in ppm

	Audit Point 1	Audit Point 2	Audit Point 3
1. Date of audit	10/10/2016	10/10/2016	10/10/2016
2. Cylinder ID number	CC202153	ALM020336	CC335211
3. Date of certification	10/11/2013	10/11/2013	11/24/2015
4. Type of certification	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1
5. Certified audit value	10.18	22.5	37.79
6. CEMS response value	10.2	21.233	37.267
7. Accuracy	0.20%	1.267ppm	1.38%

C. Relative Accuracy Audit (RAA)

The facility does not perform relative accuracy audits.

D. Corrective action for excessive inaccuracy

There were no audit failures during the reporting period.

DATA ASSESSMENT REPORT Prepared in accordance with 40 CFR Part 60, Appendix F

Gainesville Renewable Energy Center LLC	Source Unit No.:	EU-002
11201 NW 13th Street	Pollutant:	SO2 lb/MMBtu
Gainesville, FL 32653	Reporting Period:	4th Quarter 2016

Part II: Calibration Drift Assessment

A & B. Summary of out-of-control periods caused by excessive calibration drift

#	Beginning Date & Hour	Ending Date & Hour	Duration (hours)	Corrective Action
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				

DATA ASSESSMENT REPORT Prepared in accordance with 40 CFR Part 60, Appendix F

Gainesville Renewable Energy Center LLC	Source Unit No.:	EU-002
11201 NW 13th Street	Pollutant:	CO lb/MMBtu
Gainesville, FL 32653	Reporting Period:	3rd Quarter 2016

CEMS Information

Manufacturer: California Analytical Instruments (CAI) Type: Dry extractive
 Model No. 601 Sampling Location: Stack
 Serial No. Z01007 Span Value: 200 ppm

Part I: Accuracy Assessment Results

A. Relative accuracy test audit for CO in lb/MMBtu

1. Date of audit	11/6/2014
2. Reference method(s)	USEPA Method 10
3. Average reference method value	0.011
4. Average CEMS Value	0.011
5. Absolute value of mean difference [d]	-0.001
6. Confidence coefficient [CC]	0.0003
7. Percent relative accuracy (RA)	1.40%
8. EPA performance audit results	
a) Audit lot number	
b) Audit sample number	
c) Results (mg/dsm ³)	
d) Actual value (mg/dsm ³)*	
e) Relative error*	

* To be completed by the Agency.

B. Cylinder gas audit for CO in ppm

	Audit Point 1	Audit Point 2	
1. Date of audit	9/8/2016	9/8/2016	(mm/dd/yyyy)
2. Cylinder ID number	AAL072617	AAL17536	
3. Date of certification	10/14/2013	10/11/2013	(mm/dd/yyyy)
4. Type of certification	EPA Protocol 1	EPA Protocol 1	(e.g., Protocol 1)
5. Certified audit value	49.3	109.7	(e.g., ppm or percent)
6. CEMS response value	49.467	110.3	(e.g., ppm or percent)
7. Accuracy	0.34%	0.55%	(percent)

C. Relative Accuracy Audit (RAA)

The facility does not perform relative accuracy audits.

D. Corrective action for excessive inaccuracy

There were no audit failures during the reporting period.

DATA ASSESSMENT REPORT Prepared in accordance with 40 CFR Part 60, Appendix F

Gainesville Renewable Energy Center LLC
11201 NW 13th Street
Gainesville, FL 32653

Source Unit No.: EU-002
Pollutant: CO lb/MMBtu
Reporting Period: 3rd Quarter 2016

Part II: Calibration Drift Assessment

A & B. Summary of out-of-control periods caused by excessive calibration drift

#	Beginning Date & Hour	Ending Date & Hour	Duration (hours)	Corrective Action
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				

Gainesville Renewable Energy Center LLC
 11201 NW 13th Street
 Gainesville, FL 32653

Source Unit No.: EU-002
 Pollutant: CO lb/MMBtu
 Reporting Period: 4th Quarter 2016

CEMS Information

Manufacturer: California Analytical Instruments (CAI)
 Model No. 601
 Serial No. Z01007

Type: Dry extractive
 Sampling Location: Stack
 Span Value: 200 ppm

Part I: Accuracy Assessment Results

A. Relative accuracy test audit for CO in lb/MMBtu

1. Date of audit	11/6/2014
2. Reference method(s)	USEPA Method 10
3. Average reference method value	0.011
4. Average CEMS Value	0.011
5. Absolute value of mean difference [d]	-0.001
6. Confidence coefficient [CC]	0.0003
7. Percent relative accuracy (RA)	1.40%
8. EPA performance audit results	
a) Audit lot number	
b) Audit sample number	
c) Results (mg/dsm ³)	
d) Actual value (mg/dsm ³)*	
e) Relative error*	

* To be completed by the Agency.

B. Cylinder gas audit for CO in ppm

	Audit Point 1	Audit Point 2	
1. Date of audit	12/28/2016	12/28/2016	(mm/dd/yyyy)
2. Cylinder ID number	CC342400	AAL17536	
3. Date of certification	8/11/2014	10/11/2013	(mm/dd/yyyy)
4. Type of certification	EPA Protocol 1	EPA Protocol 1	(e.g., Protocol 1)
5. Certified audit value	45.99	109.7	(e.g., ppm or percent)
6. CEMS response value	44	108.133	(e.g., ppm or percent)
7. Accuracy	4.33%	1.43%	(percent)

C. Relative Accuracy Audit (RAA)

The facility does not perform relative accuracy audits.

D. Corrective action for excessive inaccuracy

There were no audit failures during the reporting period.

Part II: Calibration Drift Assessment

A & B. Summary of out-of-control periods caused by excessive calibration drift

#	Beginning Date & Hour	Ending Date & Hour	Duration (hours)	Corrective Action
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				



Department of Environmental Protection

Division of Air Resource Management

DEVIATION MONITORING REPORT TITLE V SOURCE

REASON FOR SUBMISSION (Check one to indicate why this statement of compliance is being submitted)

Semi-Annual Requirement Transfer of Permit Permanent Facility Shutdown

REPORTING PERIOD*	REPORT DEADLINE**
July 1 st through December 31 st of 2016 (year)	January 30 th

*The statement of compliance must cover all conditions that were in effect during the indicated reporting period, including any conditions that were added, deleted, or changed through permit revision.

**See Rule 62-213.440(3)(a)2., F.A.C.

Facility Owner/Company Name: Energy Management Inc.

Site Name: Gainesville Renewable Energy Center Facility ID No. 57241/0010131-006-AV County: Alachua

COMPLIANCE STATEMENT (Check only one of the following three options)

X **A.** This facility was in compliance with all terms and conditions of the Title V Air Operation Permit and, if applicable, the Acid Rain Part, and there were no reportable incidents of deviations from applicable requirements associated with any malfunction or breakdown of process, fuel burning or emission control equipment, or monitoring systems during the reporting period identified above.

 B. This facility was in compliance with all terms and conditions of the Title V Air Operation Permit and, if applicable, the Acid Rain Part; however, there were one or more reportable incidents of deviations from applicable requirements associated with malfunctions or breakdowns of process, fuel burning or emission control equipment, or monitoring systems during the reporting period identified above, which were reported to the Department. For each incident of deviation, the following information is included:

1. Date of report previously submitted identifying the incident of deviation.
2. Description of the incident.

 C. This facility was in compliance with all terms and conditions of the Title V Air Operation Permit and, if applicable, the Acid Rain Part, EXCEPT those identified in the pages attached to this report and any reportable incidents of deviations from applicable requirements associated with malfunctions or breakdowns of process, fuel burning or emission control equipment, or monitoring systems during the reporting period identified above, which were reported to the Department. For each item of noncompliance, the following information is included:

1. Emissions unit identification number.
2. Specific permit condition number (note whether the permit condition has been added, deleted, or changed during certification period).
3. Description of the requirement of the permit condition.
4. Basis for the determination of noncompliance (for monitored parameters, indicate whether monitoring was continuous, i.e., recorded at least every 15 minutes, or intermittent).
5. Beginning and ending dates of periods of noncompliance.
6. Identification of the probable cause of noncompliance and description of corrective action or preventative measures implemented.
7. Dates of any reports previously submitted identifying this incident of noncompliance.


For each incident of deviation, as described in paragraph **B.** above, the following information is included:

1. Date of report previously submitted identifying the incident of deviation.
2. Description of the incident.

DEVIATION MONITORING REPORT - TITLE V SOURCE

RESPONSIBLE OFFICIAL CERTIFICATION

I, the undersigned, am a responsible official (Title V air permit application or responsible official notification form on file with the Department) of the Title V source for which this document is being submitted. With respect to all matters other than Acid Rain program requirements, I hereby certify, based on the information and belief formed after reasonable inquiry, that the statements made and data contained in this document are true, accurate, and complete.



(Signature of Title V Source Responsible Official) 1/30/17

(Date)

Name: Leonard J. Fagan Title: VP Engineering, Asset Manager

DESIGNATED REPRESENTATIVE CERTIFICATION (only applicable to Acid Rain source)

I, the undersigned, am authorized to make this submission on behalf of the owners and operators of the Acid Rain source or Acid Rain units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.



(Signature of Acid Rain Source Designated Representative) 1/30/17

(Date)

Name: Leonard J. Fagan Title: VP Engineering, Asset Manager

{Note: Attachments, if required, are created by a responsible official or designated representative, as appropriate, and should consist of the information specified and any supporting records. Additional information may also be attached by a responsible official or designated representative when elaboration is required for clarity. This report is to be submitted to both the compliance authority (DEP district or local air program) and the U.S. Environmental Protection Agency (EPA) (U.S. EPA Region 4, Air and EPCRA Enforcement Branch, 61 Forsyth Street, Atlanta GA 30303).}

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: NOx lb/MMBtu 30 Day EPA Report

Emission Limitation: 0.070

Analyzer Make/Model: CAI 600

Analyzer Serial Number: Y08012

Reporting Period Dates: From 7/1/2016 to 9/30/2016 11:59:59 PM

Company Name: Gainesville

Address: 11201 NW 13th Street
 Gainesville, FL 32653

Process Unit Description: Biomass Boiler

Date of Last CEMS Certification or Audit: 11/6/2014

Total Source Operating Time in Reporting Period: 39 Hours

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable ¹
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	0	0.00 %
3. Calibration/QA	1	2.56 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	1	2.56 % ²

% Unavailable = CEMS Downtime during Source Operating Time/Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions ¹
1. Startup/Shutdown	0	0.00 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	0	0.00 % ²

% Excess Emissions = Total Duration of Excess Emissions/Source Operating Time x 100

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: SO2 lb/MMBtu 24 Hour EPA Report

Emission Limitation: 0.029

Analyzer Make/Model: CAI 600

Analyzer Serial Number: Z01006

Reporting Period Dates: From 7/1/2016 to 9/30/2016 11:59:59 PM

Company Name: Gainesville

Address: 11201 NW 13th Street
 Gainesville, FL 32653

Process Unit Description: Biomass Boiler

Date of Last CEMS Certification or Audit: 11/6/2014

Total Source Operating Time in Reporting Period: 39 Hours

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable ¹
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	0	0.00 %
3. Calibration/QA	4	10.26 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	4	10.26 % ²

% Unavailable = CEMS Downtime during Source Operating Time/Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions ¹
1. Startup/Shutdown	0	0.00 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	0	0.00 % ²

% Excess Emissions = Total Duration of Excess Emissions/Source Operating Time x 100

¹ For opacity, record all times in minutes. For gases, record all times in hours.

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Boiler SO2 lb/MMBtu 1 Hour Downtime Report

Facility Name: Gainesville

Location: Gainesville, FL

Source: BFB1

Parameter: SO2_RATE_P60

Data in the Reporting Period: 07/01/2016 00:00 to 09/30/2016 23:59

Incid. No.	Start Date	End Date	Duration Hours	Reason	EPA Downtime Category	Corrective Action
1	09/29/2016 13:00	09/29/2016 13:59	1	Calibration/QA	Calibration/QA	Quarterly Gas Audit
2	09/30/2016 12:00	09/30/2016 14:59	3	Calibration Drift	Calibration/QA	Performed Another Calibration

Total Downtime in the Reporting Period = 4 Hours

Data Availability for this Reporting Period = 89.74 %

Total Operating Time in the Reporting Period = 39 Hours

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: NOx lb/MW hr 30 Day EPA Report

Emission Limitation: 1.00

Analyzer Make/Model: CAI 600

Analyzer Serial Number: Y08012

Reporting Period Dates: From 7/1/2016 to 9/30/2016 11:59:59 PM

Company Name: Gainesville

Address: 11201 NW 13th Street
 Gainesville, FL 32653

Process Unit Description: Biomass Boiler

Date of Last CEMS Certification or Audit: 11/6/2014

Total Source Operating Time in Reporting Period: 39 Hours

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable ¹
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	0	0.00 %
3. Calibration/QA	39	100.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	39	100.00 % ²

% Unavailable = CEMS Downtime during Source Operating Time/Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions ¹
1. Startup/Shutdown	0	0.00 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	0	0.00 % ²

% Excess Emissions = Total Duration of Excess Emissions/Source Operating Time x 100

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

Boiler NOx lb/MW/hr 1 Hour Downtime Report

Facility Name: Gainesville

Location: Gainesville, FL

Source: BFB1

Parameter: NOx_LB/MWHR

Data in the Reporting Period: 07/01/2016 00:00 to 09/30/2016 23:59

Incid. No.	Start Date	End Date	Duration Hours	Reason	EPA Downtime Category	Corrective Action
1	09/29/2016 09:00	09/30/2016 23:59	39	Calibration/QA	Calibration/QA	Recertification

Total Downtime in the Reporting Period = 39 Hours

Data Availability for this Reporting Period = 0.00 %

Total Operating Time in the Reporting Period = 39 Hours

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: SO2 lb/MW/hr 30 Day EPA Report

Emission Limitation: 1.40

Analyzer Make/Model: CAI 600

Analyzer Serial Number: Z01006

Reporting Period Dates: From 7/1/2016 to 9/30/2016 11:59:59 PM

Company Name: Gainesville

Address: 11201 NW 13th Street
 Gainesville, FL 32653

Process Unit Description: Biomass Boiler

Date of Last CEMS Certification or Audit: 11/6/2014

Total Source Operating Time in Reporting Period: 39 Hours

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable ¹
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	0	0.00 %
3. Calibration/QA	39	100.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	39	100.00 % ²

% Unavailable = CEMS Downtime during Source Operating Time/Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions ¹
1. Startup/Shutdown	0	0.00 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	0	0.00 % ²

% Excess Emissions = Total Duration of Excess Emissions/Source Operating Time x 100

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

