

Golder Associates Inc.

6241 NW 23rd Street, Suite 500
Gainesville, FL USA 32653
Telephone (352) 336-5600
Fax (352) 336-6603
www.golder.com



FEB 13 2007

063-7587

February 12, 2007

BUREAU OF AIR REGULATION

Florida Department of Environmental Protection
2600 Blair Stone Road, MS #5505
Tallahassee, FL 32399-2400

Attention: Mr. Jeffery Koerner, P.E., Air Permitting North

**RE: OKEELANTA CORPORATION/NEW HOPE POWER PARTNERSHIP
PROJECT NOS. 0990005-016-AC AND 0990005-017-AV
TITLE V PERMIT RENEWAL AND CONCURRENT AIR CONSTRUCTION
PERMIT REVISION**

Dear Mr. Koerner:

Okeelanta Corporation and New Hope Power Partnership (NHPP) have received the Florida Department of Environmental Protection (Department) request for additional information (RAI) dated November 17, 2006, regarding the Title V renewal application. Each of the Department's requests is answered below, in the same order as they appear in the RAI letter.

1. Please identify when the new 65 MW steam-electrical generator was placed into service.

Response: The new turbine/generator (TG2) was first operated in August 2006 for testing and troubleshooting purposes. TG2 continued to operate in September and was taken out of service for the fall maintenance outage in October 2006. TG2 is scheduled to operate during the non-crop months. Commercial operation status began on January 1, 2007; however, TG2 is not scheduled to operate until the current crop season is completed in March 2007.

2. Cogeneration Boilers A, B, and C: Based on the additional information provided, opacity does not appear to be a representative indicator of compliance with the standard for particulate matter. Opacity will be used as a secondary indicator to identify step increases in emissions. Please identify the total secondary power input to the electrostatic precipitator based on representative emissions tests and identify an appropriate indicator level for this parameter for inclusion in the CAM plan.

Response: NHPP originally requested that opacity be used as a representative indicator of compliance with the standard for particulate matter for inclusion in the CAM plan. Based on the Department's response, we have reviewed the total secondary power output [kilowatts (KW)] of the electrostatic precipitators during emission compliance tests conducted in 2005 and 2006. The total secondary power output in KW is the direct current (DC) equivalent of the total secondary power input in kilovolt amperes (KVA) as alternating current (AC). One can calculate the secondary power input as KVA by multiplying the KW by a factor of 1.49.

Historic compliance test data showing electrostatic precipitator (ESP) power output and particulate matter (PM) emissions are presented in Table 1 (attached). After reviewing the data, NHPP cannot with any degree of certainty make a correlation between the power output of the ESPs and a corresponding level of PM. Therefore, NHPP is reluctant at this time to select an appropriate power indicator level representative of PM for inclusion in the CAM plan.

We believe the non-homogeneous fuel supply burned at the facility places different loads and demands on the ESPs due to factors such as varying ash content, moisture content, ash resistivity, and temperatures. These factors are responsible for the varying power loads represented in the attached data. NHPP is scheduled to conduct the annual emission compliance test on February 13, 14, and 15, 2007. We plan to collect additional power data during these tests to compare with the results from 2005 and 2006.

- 3. The additional information indicates that bottom ash and fly ash are now transferred to an enclosed building instead of to the fly ash silo. Please describe the process of bottom ash load-out from the boiler and fly ash load-out from the dust collector and electrostatic precipitator. Are all conveyor and discharge points enclosed? Is the ash wetted throughout the process? Will the ash silo remain in use?**

Response: The plant ash systems were originally designed to convey bottom ash from the boilers to the bottom ash bunker, and fly ash was conveyed from the electrostatic precipitators to the fly ash silo. The bottom ash bunker is now designated as the mixed ash bunker because it currently receives bottom ash, fly ash, and dust collector ash. The bottom ash is discharged from the boiler into the submerged bottom ash chain conveyor where it is quenched. The bottom ash is then transferred to the enclosed mixed ash belt conveyor and conveyed to the mixed ash bunker. The fly ash from the ESP is conveyed by the ESP primary screw conveyor to the #1 screw conveyor, the #2 screw conveyor, and then to the #3 transfer screw conveyor where it is joined by ash from the dust collector. The fly ash and dust collector ash are then conveyed to the #4 screw conveyor, the #5 screw conveyor, and then to the #6 mixing screw conveyor where the ash is wetted prior to transfer to the common mixed ash belt conveyor and conveyed to the mixed ash bunker. All of the fly ash and dust collector ash conveyors are enclosed. The mixed ash is then removed from the mixed ash bunker for transportation and disposal. Each boiler has a separate ash transfer system as described above. The fly ash silo is out of service. Please see Figure 1, attached, entitled "Bottom Ash, Fly Ash and Dust Collector Ash Transfer Systems".

- 4. Permit No. 0990005-017-AC was issued in April of 2006 and restricted the annual operational capacity of Boiler 16 to less than 10%. The additional information indicates that Boiler 16 has not operated since issuance of this permit and has not yet conducted compliance tests, which are due within 12 months of issuance of that permit. Please provide the latest compliance tests for this unit and any recent CEMS data demonstrating compliance with the standards in the current permit.**

Response: The latest compliance test for Boiler No. 16, as well as the latest relative accuracy test audit (RATA) was performed on March 16, 2004. See attached copy of test reports. The Boiler has not operated since March 16, 2004.

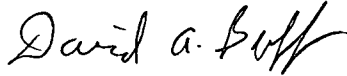
5. **Permit No. 0990005-019-AC was issued for construction activities at the sugar Transshipment Facility. The Department understands that all construction is now complete and initial compliance has been demonstrated. When will the application for Title V revision be submitted?**

Response: The application for Title V permit revision for the Transshipment facility was submitted to the Department In January 2007.

Thank you for consideration of this information. If you have any questions, please do not hesitate to call me at (352) 336-5600.

Sincerely,

GOLDER ASSOCIATES INC.



David A. Buff, P.E., Q.E.P.
Principal Engineer

DB/all

Enclosures

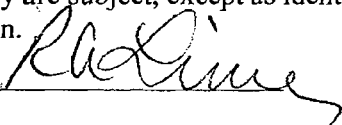
cc: Bill Tarr
Matt Capone
James Meriwether
David Dee
Jose Garcia, PBCHD
Ron Blackburn, FDEP Ft. Myers

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APPLICATION INFORMATION

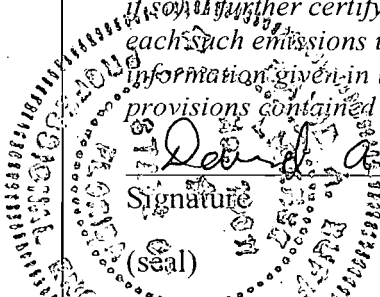
Application Responsible Official Certification

Complete if applying for an initial/revised/renewal Title V permit or concurrent processing of an air construction permit and a revised/renewal Title V permit. If there are multiple responsible officials, the "application responsible official" need not be the "primary responsible official."

1. Application Responsible Official Name: Ricardo A. Lima, Vice President and General Manager
2. Application Responsible Official Qualification (Check one or more of the following options, as applicable): <input checked="" type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input type="checkbox"/> The designated representative at an Acid Rain source.
3. Application Responsible Official Mailing Address... Organization/Firm: Okeelanta Corporation Street Address: 21250 U.S. Highway 27 South City: South Bay State: FL Zip Code: 33493
4. Application Responsible Official Telephone Numbers... Telephone: (561) 993-1600 ext. Fax: (561) 992-7326
5. Application Responsible Official Email Address:
6. Application Responsible Official Certification: I, the undersigned, am a responsible official of the Title V source addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other applicable requirements identified in this application to which the Title V source is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject, except as identified in compliance plan(s) submitted with this application.  Signature _____ Date <u>2/12/07</u>

APPLICATION INFORMATION

Professional Engineer Certification

1. Professional Engineer Name: David A. Buff Registration Number: 19011
2. Professional Engineer Mailing Address... Organization/Firm: Golder Associates Inc.** Street Address: City: State: Zip Code:
3. Professional Engineer Telephone Numbers... Telephone: () - ext. 545 Fax: () -
4. Professional Engineer Email Address: dbuff@golder.com
5. Professional Engineer Statement: <i>I, the undersigned, hereby certify, except as particularly noted herein*, that:</i> <i>(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and</i> <i>(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.</i> <i>(3) If the purpose of this application is to obtain a Title V air operation permit (check here <input type="checkbox"/>, if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.</i> <i>(4) If the purpose of this application is to obtain an air construction permit (check here <input type="checkbox"/>, if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here <input type="checkbox"/>, if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.</i> <i>(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here <input checked="" type="checkbox"/>, if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.</i> <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  <p>Signature _____ (seal)</p> </div> <div style="text-align: center;"> <p>2/12/07 Date _____</p> </div> </div>

Attach any exception to certification statement.

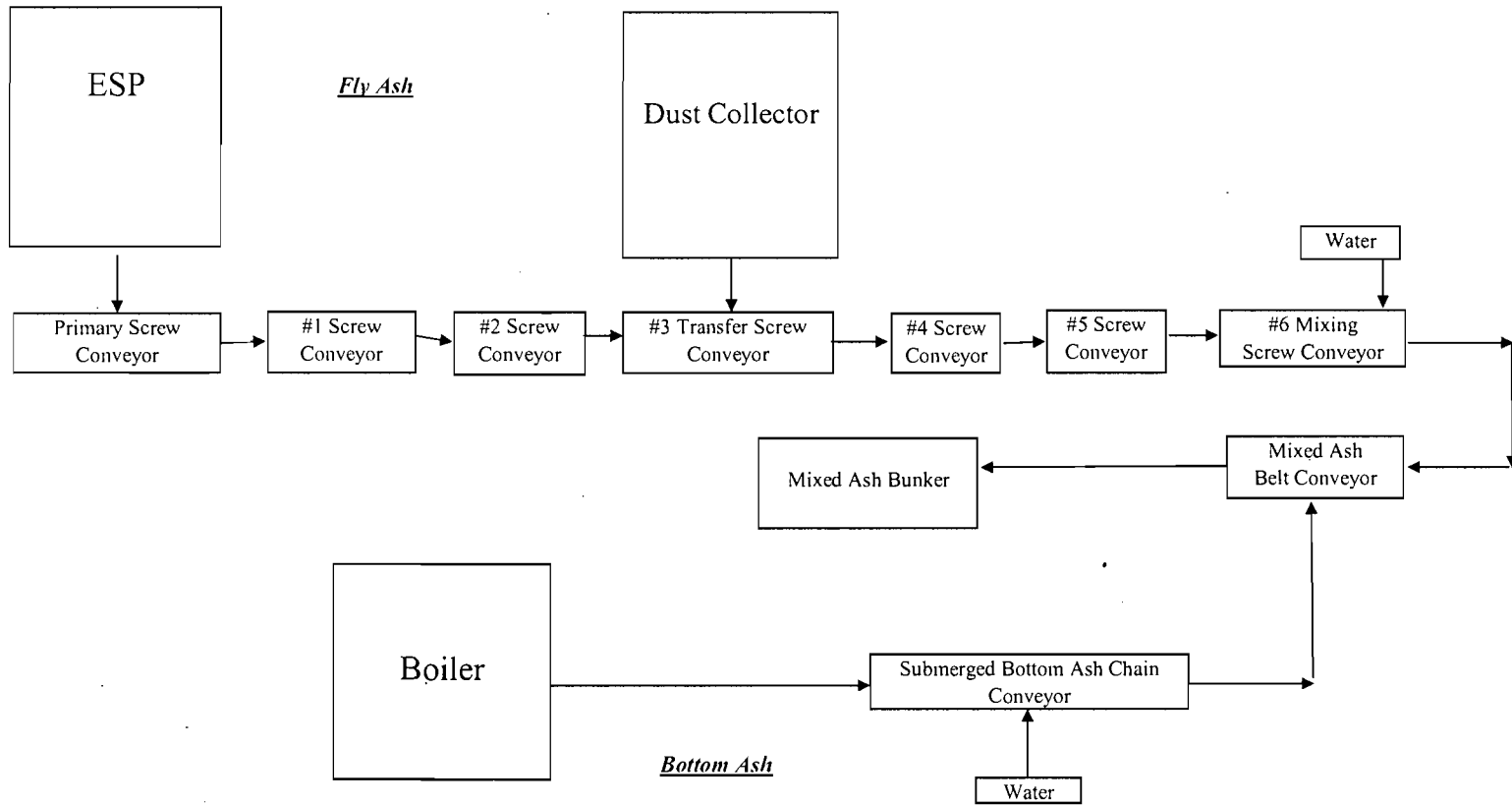
Board of Professional Engineers Certificate of Authorization #00001670

TABLE 1
PARTICULATE MATTER (LB/MMBTU) VS POWER OUTPUT OF ESP
New Hope Power Partnership - Okeelanta Cogeneration Plant

<u>Boiler</u>	<u>Date</u>	<u>Time of Test</u>	<u>Avg. PM - lb/MMBtu</u>	<u>Avg. KW-ESP</u>
A	02/14/06	10:50 to 11:51	0.0072	74.55
		12:22 to 13:24	0.0075	71.50
		13:45 to 14:49	0.0065	70.12
B	02/15/06	10:11 to 11:15	0.0091	42.01
		11:58 to 13:01	0.0097	40.57
		13:40 to 14:50	0.0112	37.45
C	02/16/06	11:15 to 12:20	0.0191	23.43
		12:52 to 13:55	0.0203	25.33
		14:30 to 15:32	0.0194	26.16
A	02/24/05	13:31 to 14:38	0.0138	27.75
		15:08 to 16:11	0.0177	23.63
		16:47 to 17:45	0.0172	22.82
B	02/23/05	13:55 to 15:01	0.0143	29.30
		15:46 to 16:49	0.0174	31.77
	02/24/05	09:23 to 10:27	0.0117	39.47
C	02/22/05	14:15 to 15:19	0.0132	36.74
		16:53 to 17:57	0.0176	34.55
	02/23/05	08:53 to 09:56	0.006	36.56

Note: The ESP power output in KW is the average of 6-minute blocks of data collected during the annual emission tests conducted in 2005 and 2006.

FIGURE 1
BOTTOM ASH, FLY ASH AND DUST COLLECTOR ASH TRANSFER SYSTEM
 New Hope Power Partnership - Okeelanta Cogeneration Plant



Note: All ash conveyors are enclosed. Fly ash and dust collector ash are wetted at the #6 Mixing Screw Conveyor prior to transfer to the Mixed Ash Belt Conveyor. Bottom ash is wetted in the submerged chain conveyor.

April 29, 2004



Mr. Sherrill C. Culliver, Environmental Manager
Florida Department of Environmental Protection
South District Office
PO Box 2549
Fort Myers Regional Service Center
2295 Victoria Avenue, Suite 364W
Fort Myers, Florida 33901-2549

RE: **Annual RATA & Compliance Test Reports, DEP Project # 0990005-009-AC**
Okeelanta Corporation Boiler No. 16 Permit No. PSD-FL-169A
DEP ID No. 0990005-003-AV E.U. ID No. 014

Dear Mr. Culliver:

Enclosed herewith are the annual relative accuracy test audit (RATA) for the NOx CEMS and compliance test report for the above referenced emissions unit. Since the permit was modified on October 30, 2001, boiler No. 16 has operated using natural gas fuel only. The RATA and annual compliance test were conducted simultaneously by Air Consulting and Engineering, Inc. on March 16, 2004. Data collected by the continuous opacity and NOx monitoring system during each test run has been summarized and attached to demonstrate compliance with the 10% opacity limit and 0.06 lb/mmBTU NOx limit for natural gas operations.

Based on information and belief formed after reasonable inquiry, the statements and information in the attached reports are true, accurate, and complete.

Should you require further information or have any concerns with these reports, please contact Matthew Capone at (561) 996-9072 extension 21658.

Sincerely,

Ricardo A. Lima
Vice President/General Manager

Enclosures

c: Palm Beach County Health Department
M. Capone, Okeelanta Corporation

ONE MINUTE REPORT

COMPANY NAME : OKEELANTA COGENERATION
 COMPANY LOCATION : SOUTH BAY, FLORIDA
 SOURCE : BOILER #16
 CEMS ID NO : 1234
 DATE CREATED : 04-27-2004 @ 15:57
 TIME PERIOD : START:10:45 END:12:43
 REPORT DATE : 03-16-2004

TIME hh:mm	INVALID QTY	MISS QTY	VALID QTY	RAW (%)	OPACITY	MC
11:45	0	0	1	0.0		00
11:46	0	0	1	0.0		00
11:47	0	0	1	0.0		00
11:48	0	0	1	0.0		00
11:49	0	0	1	0.0		00
11:50	0	0	1	0.0		00
11:51	0	0	1	0.0		00
11:52	0	0	1	0.0		00
11:53	0	0	1	0.0		00
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11:56	0	0	1	0.0		00
11:57	0	0	1	0.0		00
11:58	0	0	1	0.0		00
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12:10	0	0	1	0.0		00
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12:13	0	0	1	0.0		00
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12:32	0	0	1	0.0		00
12:33	0	0	1	0.0		00
12:34	0	0	1	0.0		00
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TOTAL	0	0	119			
AVERAGE				0.4		
MINIMUM				0.0	Time: 10:45	
MAXIMUM				2.6	Time: 10:57	

ONE MINUTE REPORT

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TIME hh:mm	INVALID QTY	MISS QTY	VALID QTY	RAW (%)	OPACITY	MC
10:45	0	0	1	0.0		00
10:46	0	0	1	0.0		00
10:47	0	0	1	0.0		00
10:48	0	0	1	0.0		00
10:49	0	0	1	0.0		00
10:50	0	0	1	0.0		00
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10:57	0	0	1	2.6		00
10:58	0	0	1	2.6		00
10:59	0	0	1	2.3		00
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TIME hh:mm	INVALID QTY	MISS QTY	VALID QTY	RAW (#/mmBTU)	NOx	MC
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12:41	0	0	1	0.051		00
12:42	0	0	1	0.051		00
12:43	0	0	1	0.051		00
TOTAL	0	0	119			
AVERAGE				0.051		
MINIMUM				0.049	Time: 10:45	
MAXIMUM				0.053	Time: 11:54	

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TIME hh:mm	INVALID QTY	MISS QTY	VALID QTY	RAW (#/mmBTU)	NOx	MC
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10:46	0	0	1	0.049		00
10:47	0	0	1	0.049		00
10:48	0	0	1	0.049		00
10:49	0	0	1	0.049		00
10:50	0	0	1	0.049		00
10:51	0	0	1	0.049		00
10:52	0	0	1	0.050		00
10:53	0	0	1	0.049		00
10:54	0	0	1	0.049		00
10:55	0	0	1	0.049		00
10:56	0	0	1	0.050		00
10:57	0	0	1	0.052		00
10:58	0	0	1	0.051		00
10:59	0	0	1	0.050		00
11:00	0	0	1	0.050		00
11:01	0	0	1	0.050		00
11:02	0	0	1	0.050		00
11:03	0	0	1	0.050		00
11:04	0	0	1	0.050		00
11:05	0	0	1	0.050		00
11:06	0	0	1	0.050		00
11:07	0	0	1	0.050		00
11:08	0	0	1	0.050		00
11:09	0	0	1	0.050		00
11:10	0	0	1	0.050		00
11:11	0	0	1	0.051		00
11:12	0	0	1	0.050		00
11:13	0	0	1	0.050		00
11:14	0	0	1	0.051		00
11:15	0	0	1	0.051		00
11:16	0	0	1	0.050		00
11:17	0	0	1	0.050		00
11:18	0	0	1	0.050		00
11:19	0	0	1	0.050		00
11:20	0	0	1	0.050		00
11:21	0	0	1	0.050		00
11:22	0	0	1	0.050		00
11:23	0	0	1	0.050		00
11:24	0	0	1	0.050		00
11:25	0	0	1	0.050		00
11:26	0	0	1	0.050		00
11:27	0	0	1	0.050		00
11:28	0	0	1	0.051		00
11:29	0	0	1	0.051		00
11:30	0	0	1	0.051		00
11:31	0	0	1	0.051		00
11:32	0	0	1	0.051		00
11:33	0	0	1	0.051		00
11:34	0	0	1	0.051		00
11:35	0	0	1	0.051		00
11:36	0	0	1	0.051		00
11:37	0	0	1	0.051		00
11:38	0	0	1	0.051		00
11:39	0	0	1	0.051		00
11:40	0	0	1	0.051		00
11:41	0	0	1	0.052		00
11:42	0	0	1	0.052		00
11:43	0	0	1	0.051		00
11:44	0	0	1	0.051		00

ONE MINUTE REPORT

COMPANY NAME : OKEELANTA COGENERATION
 COMPANY LOCATION : SOUTH BAY, FLORIDA
 SOURCE : BOILER #16
 CEMS ID NO : 1234
 DATE CREATED : 04-27-2004 @ 15:56
 TIME PERIOD : START:10:45 END:12:43
 REPORT DATE : 03-16-2004

TIME hh:mm	INVALID QTY	MISS QTY	VALID QTY	RAW (PPM)	NOx	MC
11:45	0	0	1	38.4		00
11:46	0	0	1	38.3		00
11:47	0	0	1	38.5		00
11:48	0	0	1	38.7		00
11:49	0	0	1	38.9		00
11:50	0	0	1	38.8		00
11:51	0	0	1	39.3		00
11:52	0	0	1	39.2		00
11:53	0	0	1	39.2		00
11:54	0	0	1	39.3		00
11:55	0	0	1	39.1		00
11:56	0	0	1	39.4		00
11:57	0	0	1	39.3		00
11:58	0	0	1	39.2		00
11:59	0	0	1	39.1		00
12:00	0	0	1	38.8		00
12:01	0	0	1	38.7		00
12:02	0	0	1	38.5		00
12:03	0	0	1	38.5		00
12:04	0	0	1	38.6		00
12:05	0	0	1	38.7		00
12:06	0	0	1	38.5		00
12:07	0	0	1	38.8		00
12:08	0	0	1	38.8		00
12:09	0	0	1	38.7		00
12:10	0	0	1	38.7		00
12:11	0	0	1	38.9		00
12:12	0	0	1	38.8		00
12:13	0	0	1	38.8		00
12:14	0	0	1	38.5		00
12:15	0	0	1	38.4		00
12:16	0	0	1	38.5		00
12:17	0	0	1	38.9		00
12:18	0	0	1	39.0		00
12:19	0	0	1	38.9		00
12:20	0	0	1	38.8		00
12:21	0	0	1	38.9		00
12:22	0	0	1	38.9		00
12:23	0	0	1	38.7		00
12:24	0	0	1	38.5		00
12:25	0	0	1	38.5		00
12:26	0	0	1	38.7		00
12:27	0	0	1	38.7		00
12:28	0	0	1	38.8		00
12:29	0	0	1	38.8		00
12:30	0	0	1	38.2		00
12:31	0	0	1	38.8		00
12:32	0	0	1	39.0		00
12:33	0	0	1	39.0		00
12:34	0	0	1	39.1		00
12:35	0	0	1	39.3		00
12:36	0	0	1	38.8		00
12:37	0	0	1	38.8		00
12:38	0	0	1	38.8		00
12:39	0	0	1	38.7		00
12:40	0	0	1	38.8		00
12:41	0	0	1	38.8		00
12:42	0	0	1	38.8		00
12:43	0	0	1	38.6		00
TOTAL	0	0	119			
AVERAGE				38.5		
MINIMUM				37.3	Time: 10:45	
MAXIMUM				39.4	Time: 11:56	

ONE MINUTE REPORT

COMPANY NAME : OKEELANTA COGENERATION
 COMPANY LOCATION : SOUTH BAY, FLORIDA
 SOURCE : BOILER #16
 CEMS ID NO : 1234
 DATE CREATED : 04-27-2004 @ 15:56
 TIME PERIOD : START:10:45 END:12:43
 REPORT DATE : 03-16-2004

TIME hh:mm				NOx	
	INVALID QTY	MISS QTY	VALID QTY	RAW (PPM)	MC
10:45	0	0	1	37.3	00
10:46	0	0	1	37.4	00
10:47	0	0	1	37.7	00
10:48	0	0	1	37.8	00
10:49	0	0	1	37.8	00
10:50	0	0	1	37.8	00
10:51	0	0	1	37.7	00
10:52	0	0	1	37.7	00
10:53	0	0	1	37.7	00
10:54	0	0	1	37.6	00
10:55	0	0	1	38.1	00
10:56	0	0	1	38.2	00
10:57	0	0	1	37.9	00
10:58	0	0	1	37.9	00
10:59	0	0	1	37.9	00
11:00	0	0	1	37.9	00
11:01	0	0	1	37.9	00
11:02	0	0	1	37.8	00
11:03	0	0	1	37.7	00
11:04	0	0	1	37.8	00
11:05	0	0	1	37.9	00
11:06	0	0	1	37.9	00
11:07	0	0	1	37.9	00
11:08	0	0	1	38.1	00
11:09	0	0	1	38.1	00
11:10	0	0	1	38.1	00
11:11	0	0	1	38.2	00
11:12	0	0	1	38.1	00
11:13	0	0	1	38.2	00
11:14	0	0	1	38.3	00
11:15	0	0	1	38.4	00
11:16	0	0	1	38.5	00
11:17	0	0	1	38.3	00
11:18	0	0	1	38.4	00
11:19	0	0	1	38.3	00
11:20	0	0	1	38.6	00
11:21	0	0	1	38.5	00
11:22	0	0	1	38.6	00
11:23	0	0	1	38.6	00
11:24	0	0	1	38.6	00
11:25	0	0	1	38.7	00
11:26	0	0	1	38.9	00
11:27	0	0	1	38.6	00
11:28	0	0	1	38.7	00
11:29	0	0	1	38.7	00
11:30	0	0	1	38.6	00
11:31	0	0	1	38.6	00
11:32	0	0	1	38.6	00
11:33	0	0	1	38.7	00
11:34	0	0	1	38.8	00
11:35	0	0	1	38.6	00
11:36	0	0	1	38.4	00
11:37	0	0	1	38.4	00
11:38	0	0	1	38.5	00
11:39	0	0	1	38.5	00
11:40	0	0	1	38.5	00
11:41	0	0	1	38.7	00
11:42	0	0	1	38.5	00
11:43	0	0	1	38.2	00
11:44	0	0	1	38.4	00

ONE MINUTE REPORT

COMPANY NAME : OKEELANTA COGENERATION
 COMPANY LOCATION : SOUTH BAY, FLORIDA
 SOURCE : BOILER #16
 CEMS ID NO : 1234
 DATE CREATED : 04-27-2004 @ 15:56
 TIME PERIOD : START:10:45 END:12:43
 REPORT DATE : 03-16-2004

TIME hh:mm	INVALID QTY	MISS QTY	VALID QTY	RAW (%)	O2	MC
11:45	0	0	1	4.4		00
11:46	0	0	1	4.4		00
11:47	0	0	1	4.4		00
11:48	0	0	1	4.4		00
11:49	0	0	1	4.4		00
11:50	0	0	1	4.4		00
11:51	0	0	1	4.0		00
11:52	0	0	1	4.3		00
11:53	0	0	1	4.4		00
11:54	0	0	1	4.7		00
11:55	0	0	1	4.7		00
11:56	0	0	1	4.7		00
11:57	0	0	1	4.6		00
11:58	0	0	1	4.6		00
11:59	0	0	1	4.6		00
12:00	0	0	1	4.6		00
12:01	0	0	1	4.6		00
12:02	0	0	1	4.6		00
12:03	0	0	1	4.6		00
12:04	0	0	1	4.5		00
12:05	0	0	1	4.5		00
12:06	0	0	1	4.5		00
12:07	0	0	1	4.5		00
12:08	0	0	1	4.5		00
12:09	0	0	1	4.4		00
12:10	0	0	1	4.3		00
12:11	0	0	1	4.7		00
12:12	0	0	1	4.7		00
12:13	0	0	1	4.7		00
12:14	0	0	1	4.6		00
12:15	0	0	1	4.6		00
12:16	0	0	1	4.6		00
12:17	0	0	1	4.7		00
12:18	0	0	1	4.7		00
12:19	0	0	1	4.7		00
12:20	0	0	1	4.7		00
12:21	0	0	1	4.7		00
12:22	0	0	1	4.6		00
12:23	0	0	1	4.6		00
12:24	0	0	1	4.6		00
12:25	0	0	1	4.8		00
12:26	0	0	1	4.5		00
12:27	0	0	1	4.4		00
12:28	0	0	1	4.5		00
12:29	0	0	1	4.5		00
12:30	0	0	1	4.4		00
12:31	0	0	1	4.6		00
12:32	0	0	1	4.3		00
12:33	0	0	1	3.9		00
12:34	0	0	1	3.8		00
12:35	0	0	1	4.0		00
12:36	0	0	1	4.5		00
12:37	0	0	1	4.9		00
12:38	0	0	1	4.7		00
12:39	0	0	1	4.6		00
12:40	0	0	1	4.5		00
12:41	0	0	1	4.4		00
12:42	0	0	1	4.3		00
12:43	0	0	1	4.4		00
TOTAL	0	0	119			
AVERAGE				4.4		
MINIMUM				3.8	Time: 12:34	
MAXIMUM				4.9	Time: 10:57	

ONE MINUTE REPORT

COMPANY NAME : OKEELANTA COGENERATION
 COMPANY LOCATION : SOUTH BAY, FLORIDA
 SOURCE : BOILER #16
 CEMS ID NO : 1234
 DATE CREATED : 04-27-2004 @ 15:56
 TIME PERIOD : START:10:45 END:12:43
 REPORT DATE : 03-16-2004

TIME hh:mm	INVALID QTY	MISS QTY	VALID QTY	O2	
				RAW (%)	MC
10:45	0	0	1	4.2	00
10:46	0	0	1	4.2	00
10:47	0	0	1	4.2	00
10:48	0	0	1	4.2	00
10:49	0	0	1	4.2	00
10:50	0	0	1	4.3	00
10:51	0	0	1	4.3	00
10:52	0	0	1	4.3	00
10:53	0	0	1	4.2	00
10:54	0	0	1	4.2	00
10:55	0	0	1	4.1	00
10:56	0	0	1	4.4	00
10:57	0	0	1	4.9	00
10:58	0	0	1	4.6	00
10:59	0	0	1	4.5	00
11:00	0	0	1	4.4	00
11:01	0	0	1	4.4	00
11:02	0	0	1	4.4	00
11:03	0	0	1	4.4	00
11:04	0	0	1	4.4	00
11:05	0	0	1	4.4	00
11:06	0	0	1	4.4	00
11:07	0	0	1	4.4	00
11:08	0	0	1	4.4	00
11:09	0	0	1	4.4	00
11:10	0	0	1	4.4	00
11:11	0	0	1	4.5	00
11:12	0	0	1	4.5	00
11:13	0	0	1	4.5	00
11:14	0	0	1	4.5	00
11:15	0	0	1	4.4	00
11:16	0	0	1	4.1	00
11:17	0	0	1	4.1	00
11:18	0	0	1	4.1	00
11:19	0	0	1	4.1	00
11:20	0	0	1	4.1	00
11:21	0	0	1	4.1	00
11:22	0	0	1	4.1	00
11:23	0	0	1	4.1	00
11:24	0	0	1	4.1	00
11:25	0	0	1	4.1	00
11:26	0	0	1	4.1	00
11:27	0	0	1	4.1	00
11:28	0	0	1	4.3	00
11:29	0	0	1	4.3	00
11:30	0	0	1	4.3	00
11:31	0	0	1	4.4	00
11:32	0	0	1	4.4	00
11:33	0	0	1	4.5	00
11:34	0	0	1	4.5	00
11:35	0	0	1	4.4	00
11:36	0	0	1	4.5	00
11:37	0	0	1	4.6	00
11:38	0	0	1	4.6	00
11:39	0	0	1	4.6	00
11:40	0	0	1	4.6	00
11:41	0	0	1	4.6	00
11:42	0	0	1	4.7	00
11:43	0	0	1	4.6	00
11:44	0	0	1	4.5	00

ONE MINUTE REPORT

COMPANY NAME : OKEELANTA COGENERATION
 COMPANY LOCATION : SOUTH BAY, FLORIDA
 SOURCE : BOILER #16
 CEMS ID NO : 1234
 DATE CREATED : 04-27-2004 @ 15:57
 TIME PERIOD : START:10:45 END:12:43
 REPORT DATE : 03-16-2004

TIME hh:mm	HEAT INPUT			RAW (MMBTU/HR)	MC
	INVALID QTY	MISS QTY	VALID QTY		
11:45	0	0	1	128.5	00
11:46	0	0	1	128.4	00
11:47	0	0	1	128.4	00
11:48	0	0	1	128.4	00
11:49	0	0	1	128.4	00
11:50	0	0	1	132.1	00
11:51	0	0	1	132.5	00
11:52	0	0	1	131.5	00
11:53	0	0	1	129.3	00
11:54	0	0	1	128.5	00
11:55	0	0	1	128.5	00
11:56	0	0	1	128.8	00
11:57	0	0	1	129.0	00
11:58	0	0	1	129.0	00
11:59	0	0	1	128.6	00
12:00	0	0	1	128.4	00
12:01	0	0	1	128.3	00
12:02	0	0	1	128.2	00
12:03	0	0	1	128.5	00
12:04	0	0	1	128.6	00
12:05	0	0	1	128.6	00
12:06	0	0	1	128.6	00
12:07	0	0	1	128.5	00
12:08	0	0	1	128.5	00
12:09	0	0	1	129.8	00
12:10	0	0	1	128.9	00
12:11	0	0	1	127.8	00
12:12	0	0	1	127.8	00
12:13	0	0	1	127.7	00
12:14	0	0	1	127.6	00
12:15	0	0	1	127.6	00
12:16	0	0	1	127.6	00
12:17	0	0	1	127.6	00
12:18	0	0	1	127.6	00
12:19	0	0	1	127.6	00
12:20	0	0	1	127.5	00
12:21	0	0	1	127.5	00
12:22	0	0	1	127.4	00
12:23	0	0	1	127.4	00
12:24	0	0	1	125.8	00
12:25	0	0	1	126.4	00
12:26	0	0	1	128.1	00
12:27	0	0	1	128.0	00
12:28	0	0	1	127.6	00
12:29	0	0	1	127.9	00
12:30	0	0	1	126.7	00
12:31	0	0	1	127.2	00
12:32	0	0	1	130.4	00
12:33	0	0	1	134.6	00
12:34	0	0	1	132.5	00
12:35	0	0	1	131.5	00
12:36	0	0	1	124.5	00
12:37	0	0	1	125.0	00
12:38	0	0	1	126.5	00
12:39	0	0	1	126.6	00
12:40	0	0	1	127.1	00
12:41	0	0	1	127.7	00
12:42	0	0	1	127.7	00
12:43	0	0	1	126.8	00
TOTAL	0	0	119		
AVERAGE				128.2	
MINIMUM				123.7	Time: 10:45
MAXIMUM				134.6	Time: 12:33

ONE MINUTE REPORT

COMPANY NAME : OKEELANTA COGENERATION
 COMPANY LOCATION : SOUTH BAY, FLORIDA
 SOURCE : BOILER #16
 CEMS ID NO : 1234
 DATE CREATED : 04-27-2004 @ 15:57
 TIME PERIOD : START:10:45 END:12:43
 REPORT DATE : 03-16-2004

TIME hh:mm	HEAT INPUT			RAW (MMBTU/HR)	MC
	INVALID QTY	MISS QTY	VALID QTY		
10:45	0	0	1	123.7	00
10:46	0	0	1	125.3	00
10:47	0	0	1	126.4	00
10:48	0	0	1	126.5	00
10:49	0	0	1	125.8	00
10:50	0	0	1	125.5	00
10:51	0	0	1	125.6	00
10:52	0	0	1	127.0	00
10:53	0	0	1	127.4	00
10:54	0	0	1	127.7	00
10:55	0	0	1	129.3	00
10:56	0	0	1	124.3	00
10:57	0	0	1	124.8	00
10:58	0	0	1	125.6	00
10:59	0	0	1	127.5	00
11:00	0	0	1	127.7	00
11:01	0	0	1	127.7	00
11:02	0	0	1	127.8	00
11:03	0	0	1	127.8	00
11:04	0	0	1	127.9	00
11:05	0	0	1	127.9	00
11:06	0	0	1	128.0	00
11:07	0	0	1	128.0	00
11:08	0	0	1	128.1	00
11:09	0	0	1	128.2	00
11:10	0	0	1	127.3	00
11:11	0	0	1	127.1	00
11:12	0	0	1	127.1	00
11:13	0	0	1	127.1	00
11:14	0	0	1	127.2	00
11:15	0	0	1	129.8	00
11:16	0	0	1	129.8	00
11:17	0	0	1	129.9	00
11:18	0	0	1	129.9	00
11:19	0	0	1	129.9	00
11:20	0	0	1	129.9	00
11:21	0	0	1	129.9	00
11:22	0	0	1	129.9	00
11:23	0	0	1	130.0	00
11:24	0	0	1	130.0	00
11:25	0	0	1	130.0	00
11:26	0	0	1	130.0	00
11:27	0	0	1	129.5	00
11:28	0	0	1	129.0	00
11:29	0	0	1	129.0	00
11:30	0	0	1	129.0	00
11:31	0	0	1	128.9	00
11:32	0	0	1	128.9	00
11:33	0	0	1	128.9	00
11:34	0	0	1	128.9	00
11:35	0	0	1	128.7	00
11:36	0	0	1	128.1	00
11:37	0	0	1	127.9	00
11:38	0	0	1	127.8	00
11:39	0	0	1	127.8	00
11:40	0	0	1	127.7	00
11:41	0	0	1	127.6	00
11:42	0	0	1	127.5	00
11:43	0	0	1	127.6	00
11:44	0	0	1	128.8	00

ONE MINUTE REPORT

COMPANY NAME : OKEELANTA COGENERATION
 COMPANY LOCATION : SOUTH BAY, FLORIDA
 SOURCE : BOILER #16
 CEMS ID NO : 1234
 DATE CREATED : 04-27-2004 @ 15:58
 TIME PERIOD : START:13:05 END:14:42
 REPORT DATE : 03-16-2004

TIME hh:mm	INVALID QTY	MISS QTY	VALID QTY	RAW (%)	OPACITY	MC
14:05	0	0	1	0.0		00
14:06	0	0	1	0.0		00
14:07	0	0	1	0.0		00
14:08	0	0	1	0.1		00
14:09	0	0	1	0.1		00
14:10	0	0	1	0.0		00
14:11	0	0	1	0.0		00
14:12	0	0	1	0.0		00
14:13	0	0	1	0.0		00
14:14	0	0	1	0.0		00
14:15	0	0	1	0.0		00
14:16	0	0	1	0.0		00
14:17	0	0	1	0.0		00
14:18	0	0	1	0.0		00
14:19	0	0	1	0.0		00
14:20	0	0	1	0.0		00
14:21	0	0	1	0.0		00
14:22	0	0	1	0.0		00
14:23	0	0	1	0.0		00
14:24	0	0	1	0.0		00
14:25	0	0	1	0.0		00
14:26	0	0	1	0.0		00
14:27	0	0	1	0.0		00
14:28	0	0	1	0.0		00
14:29	0	0	1	0.0		00
14:30	0	0	1	0.0		00
14:31	0	0	1	0.0		00
14:32	0	0	1	0.0		00
14:33	0	0	1	0.0		00
14:34	0	0	1	0.0		00
14:35	0	0	1	0.0		00
14:36	0	0	1	0.0		00
14:37	0	0	1	0.0		00
14:38	0	0	1	0.0		00
14:39	0	0	1	0.0		00
14:40	0	0	1	0.0		00
14:41	0	0	1	0.0		00
14:42	0	0	1	0.0		00
TOTAL	0	0	98			
AVERAGE				0.0		
MINIMUM				0.0	Time: 13:05	
MAXIMUM				0.1	Time: 14:08	

ONE MINUTE REPORT

COMPANY NAME : OKEELANTA COGENERATION
 COMPANY LOCATION : SOUTH BAY, FLORIDA
 SOURCE : BOILER #16
 CEMS ID NO : 1234
 DATE CREATED : 04-27-2004 @ 15:58
 TIME PERIOD : START:13:05 END:14:42
 REPORT DATE : 03-16-2004

TIME hh:mm	INVALID QTY	MISS QTY	VALID QTY	RAW (%)	OPACITY	MC
13:05	0	0	1	0.0		00
13:06	0	0	1	0.0		00
13:07	0	0	1	0.0		00
13:08	0	0	1	0.0		00
13:09	0	0	1	0.0		00
13:10	0	0	1	0.0		00
13:11	0	0	1	0.0		00
13:12	0	0	1	0.0		00
13:13	0	0	1	0.0		00
13:14	0	0	1	0.0		00
13:15	0	0	1	0.0		00
13:16	0	0	1	0.0		00
13:17	0	0	1	0.0		00
13:18	0	0	1	0.0		00
13:19	0	0	1	0.0		00
13:20	0	0	1	0.0		00
13:21	0	0	1	0.0		00
13:22	0	0	1	0.0		00
13:23	0	0	1	0.0		00
13:24	0	0	1	0.0		00
13:25	0	0	1	0.0		00
13:26	0	0	1	0.0		00
13:27	0	0	1	0.0		00
13:28	0	0	1	0.0		00
13:29	0	0	1	0.0		00
13:30	0	0	1	0.0		00
13:31	0	0	1	0.0		00
13:32	0	0	1	0.0		00
13:33	0	0	1	0.0		00
13:34	0	0	1	0.0		00
13:35	0	0	1	0.0		00
13:36	0	0	1	0.0		00
13:37	0	0	1	0.0		00
13:38	0	0	1	0.0		00
13:39	0	0	1	0.0		00
13:40	0	0	1	0.0		00
13:41	0	0	1	0.0		00
13:42	0	0	1	0.0		00
13:43	0	0	1	0.0		00
13:44	0	0	1	0.0		00
13:45	0	0	1	0.0		00
13:46	0	0	1	0.0		00
13:47	0	0	1	0.0		00
13:48	0	0	1	0.0		00
13:49	0	0	1	0.0		00
13:50	0	0	1	0.0		00
13:51	0	0	1	0.0		00
13:52	0	0	1	0.0		00
13:53	0	0	1	0.0		00
13:54	0	0	1	0.0		00
13:55	0	0	1	0.0		00
13:56	0	0	1	0.0		00
13:57	0	0	1	0.0		00
13:58	0	0	1	0.0		00
13:59	0	0	1	0.0		00
14:00	0	0	1	0.0		00
14:01	0	0	1	0.0		00
14:02	0	0	1	0.0		00
14:03	0	0	1	0.0		00
14:04	0	0	1	0.0		00

ONE MINUTE REPORT

COMPANY NAME : OKEELANTA COGENERATION
 COMPANY LOCATION : SOUTH BAY, FLORIDA
 SOURCE : BOILER #16
 CEMS ID NO : 1234
 DATE CREATED : 04-27-2004 @ 16:04
 TIME PERIOD : START:13:05 END:14:42
 REPORT DATE : 03-16-2004

TIME hh:mm	INVALID QTY	MISS QTY	VALID QTY	NOx	
				RAW (#/mmBTU)	MC
14:05	0	0	1	0.050	00
14:06	0	0	1	0.051	00
14:07	0	0	1	0.051	00
14:08	0	0	1	0.049	00
14:09	0	0	1	0.048	00
14:10	0	0	1	0.049	00
14:11	0	0	1	0.048	00
14:12	0	0	1	0.048	00
14:13	0	0	1	0.048	00
14:14	0	0	1	0.048	00
14:15	0	0	1	0.051	00
14:16	0	0	1	0.050	00
14:17	0	0	1	0.051	00
14:18	0	0	1	0.050	00
14:19	0	0	1	0.049	00
14:20	0	0	1	0.049	00
14:21	0	0	1	0.049	00
14:22	0	0	1	0.049	00
14:23	0	0	1	0.049	00
14:24	0	0	1	0.049	00
14:25	0	0	1	0.050	00
14:26	0	0	1	0.050	00
14:27	0	0	1	0.049	00
14:28	0	0	1	0.048	00
14:29	0	0	1	0.048	00
14:30	0	0	1	0.048	00
14:31	0	0	1	0.048	00
14:32	0	0	1	0.048	00
14:33	0	0	1	0.049	00
14:34	0	0	1	0.050	00
14:35	0	0	1	0.049	00
14:36	0	0	1	0.049	00
14:37	0	0	1	0.049	00
14:38	0	0	1	0.050	00
14:39	0	0	1	0.049	00
14:40	0	0	1	0.049	00
14:41	0	0	1	0.050	00
14:42	0	0	1	0.050	00
TOTAL	0	0	98		
AVERAGE				0.050	
MINIMUM				0.048	Time: 13:58
MAXIMUM				0.052	Time: 13:13

ONE MINUTE REPORT

Page : 1

COMPANY NAME : OKEELANTA COGENERATION
COMPANY LOCATION : SOUTH BAY, FLORIDA
SOURCE : BOILER #16
CEMS ID NO : 1234
DATE CREATED : 04-27-2004 @ 16:04
TIME PERIOD : START:13:05 END:14:42
REPORT DATE : 03-16-2004

TIME hh:mm	INVALID QTY	MISS QTY	VALID QTY	NOx	
				RAW (#/mmBTU)	MC
13:05	0	0	1	0.050	00
13:06	0	0	1	0.049	00
13:07	0	0	1	0.049	00
13:08	0	0	1	0.049	00
13:09	0	0	1	0.049	00
13:10	0	0	1	0.051	00
13:11	0	0	1	0.051	00
13:12	0	0	1	0.051	00
13:13	0	0	1	0.052	00
13:14	0	0	1	0.051	00
13:15	0	0	1	0.050	00
13:16	0	0	1	0.050	00
13:17	0	0	1	0.050	00
13:18	0	0	1	0.050	00
13:19	0	0	1	0.051	00
13:20	0	0	1	0.051	00
13:21	0	0	1	0.050	00
13:22	0	0	1	0.050	00
13:23	0	0	1	0.051	00
13:24	0	0	1	0.050	00
13:25	0	0	1	0.051	00
13:26	0	0	1	0.050	00
13:27	0	0	1	0.050	00
13:28	0	0	1	0.050	00
13:29	0	0	1	0.050	00
13:30	0	0	1	0.050	00
13:31	0	0	1	0.051	00
13:32	0	0	1	0.051	00
13:33	0	0	1	0.051	00
13:34	0	0	1	0.051	00
13:35	0	0	1	0.050	00
13:36	0	0	1	0.050	00
13:37	0	0	1	0.050	00
13:38	0	0	1	0.050	00
13:39	0	0	1	0.050	00
13:40	0	0	1	0.051	00
13:41	0	0	1	0.051	00
13:42	0	0	1	0.051	00
13:43	0	0	1	0.050	00
13:44	0	0	1	0.050	00
13:45	0	0	1	0.050	00
13:46	0	0	1	0.050	00
13:47	0	0	1	0.050	00
13:48	0	0	1	0.050	00
13:49	0	0	1	0.049	00
13:50	0	0	1	0.050	00
13:51	0	0	1	0.049	00
13:52	0	0	1	0.049	00
13:53	0	0	1	0.049	00
13:54	0	0	1	0.050	00
13:55	0	0	1	0.049	00
13:56	0	0	1	0.050	00
13:57	0	0	1	0.050	00
13:58	0	0	1	0.048	00
13:59	0	0	1	0.049	00
14:00	0	0	1	0.049	00
14:01	0	0	1	0.051	00
14:02	0	0	1	0.051	00
14:03	0	0	1	0.051	00
14:04	0	0	1	0.050	00

ONE MINUTE REPORT

COMPANY NAME : OKEELANTA COGENERATION
 COMPANY LOCATION : SOUTH BAY, FLORIDA
 SOURCE : BOILER #16
 CEMS ID NO : 1234
 DATE CREATED : 04-27-2004 @ 15:58
 TIME PERIOD : START:13:05 END:14:42
 REPORT DATE : 03-16-2004

TIME hh:mm	NOx			RAW (PPM)	MC
	INVALID QTY	MISS QTY	VALID QTY		
14:05	0	0	1	38.2	00
14:06	0	0	1	38.6	00
14:07	0	0	1	38.4	00
14:08	0	0	1	37.3	00
14:09	0	0	1	36.7	00
14:10	0	0	1	37.0	00
14:11	0	0	1	37.0	00
14:12	0	0	1	36.7	00
14:13	0	0	1	36.6	00
14:14	0	0	1	37.1	00
14:15	0	0	1	38.4	00
14:16	0	0	1	38.3	00
14:17	0	0	1	38.4	00
14:18	0	0	1	38.1	00
14:19	0	0	1	37.4	00
14:20	0	0	1	37.4	00
14:21	0	0	1	37.6	00
14:22	0	0	1	37.8	00
14:23	0	0	1	38.0	00
14:24	0	0	1	37.9	00
14:25	0	0	1	37.5	00
14:26	0	0	1	37.4	00
14:27	0	0	1	37.7	00
14:28	0	0	1	37.8	00
14:29	0	0	1	37.8	00
14:30	0	0	1	37.6	00
14:31	0	0	1	38.0	00
14:32	0	0	1	38.2	00
14:33	0	0	1	38.3	00
14:34	0	0	1	38.0	00
14:35	0	0	1	37.7	00
14:36	0	0	1	37.9	00
14:37	0	0	1	37.9	00
14:38	0	0	1	38.1	00
14:39	0	0	1	37.8	00
14:40	0	0	1	37.4	00
14:41	0	0	1	38.3	00
14:42	0	0	1	38.0	00
TOTAL	0	0	98		
AVERAGE				38.2	
MINIMUM				36.6	Time: 14:13
MAXIMUM				39.2	Time: 13:33

ONE MINUTE REPORT

COMPANY NAME : OKEELANTA COGENERATION
 COMPANY LOCATION : SOUTH BAY, FLORIDA
 SOURCE : BOILER #16
 CEMS ID NO : 1234
 DATE CREATED : 04-27-2004 @ 15:58
 TIME PERIOD : START:13:05 END:14:42
 REPORT DATE : 03-16-2004

TIME hh:mm				RAW (PPM)	NOx	MC
	INVALID QTY	MISS QTY	VALID QTY			
13:05	0	0	1	38.1		00
13:06	0	0	1	37.9		00
13:07	0	0	1	37.7		00
13:08	0	0	1	37.9		00
13:09	0	0	1	38.1		00
13:10	0	0	1	38.4		00
13:11	0	0	1	38.4		00
13:12	0	0	1	38.8		00
13:13	0	0	1	38.9		00
13:14	0	0	1	38.7		00
13:15	0	0	1	38.7		00
13:16	0	0	1	38.7		00
13:17	0	0	1	38.6		00
13:18	0	0	1	38.5		00
13:19	0	0	1	38.5		00
13:20	0	0	1	38.4		00
13:21	0	0	1	37.9		00
13:22	0	0	1	38.3		00
13:23	0	0	1	38.7		00
13:24	0	0	1	38.7		00
13:25	0	0	1	38.7		00
13:26	0	0	1	38.5		00
13:27	0	0	1	38.2		00
13:28	0	0	1	38.8		00
13:29	0	0	1	38.3		00
13:30	0	0	1	38.5		00
13:31	0	0	1	39.0		00
13:32	0	0	1	39.0		00
13:33	0	0	1	39.2		00
13:34	0	0	1	38.9		00
13:35	0	0	1	38.8		00
13:36	0	0	1	38.7		00
13:37	0	0	1	38.8		00
13:38	0	0	1	38.4		00
13:39	0	0	1	38.8		00
13:40	0	0	1	39.0		00
13:41	0	0	1	39.1		00
13:42	0	0	1	38.9		00
13:43	0	0	1	38.8		00
13:44	0	0	1	38.6		00
13:45	0	0	1	38.8		00
13:46	0	0	1	38.6		00
13:47	0	0	1	38.6		00
13:48	0	0	1	38.3		00
13:49	0	0	1	37.6		00
13:50	0	0	1	38.4		00
13:51	0	0	1	37.9		00
13:52	0	0	1	37.5		00
13:53	0	0	1	37.4		00
13:54	0	0	1	38.1		00
13:55	0	0	1	37.6		00
13:56	0	0	1	38.3		00
13:57	0	0	1	38.3		00
13:58	0	0	1	37.0		00
13:59	0	0	1	37.6		00
14:00	0	0	1	38.0		00
14:01	0	0	1	38.7		00
14:02	0	0	1	38.6		00
14:03	0	0	1	38.5		00
14:04	0	0	1	38.2		00

ONE MINUTE REPORT

COMPANY NAME : OKEELANTA COGENERATION
 COMPANY LOCATION : SOUTH BAY, FLORIDA
 SOURCE : BOILER #16
 CEMS ID NO : 1234
 DATE CREATED : 04-27-2004 @ 15:59
 TIME PERIOD : START:13:05 END:14:42
 REPORT DATE : 03-16-2004

TIME hh:mm				RAW (%)	O2	MC
	INVALID QTY	MISS QTY	VALID QTY			
13:05	0	0	1	4.3		00
13:06	0	0	1	4.2		00
13:07	0	0	1	4.2		00
13:08	0	0	1	4.1		00
13:09	0	0	1	4.1		00
13:10	0	0	1	4.4		00
13:11	0	0	1	4.5		00
13:12	0	0	1	4.5		00
13:13	0	0	1	4.5		00
13:14	0	0	1	4.3		00
13:15	0	0	1	4.2		00
13:16	0	0	1	4.2		00
13:17	0	0	1	4.2		00
13:18	0	0	1	4.2		00
13:19	0	0	1	4.4		00
13:20	0	0	1	4.5		00
13:21	0	0	1	4.5		00
13:22	0	0	1	4.4		00
13:23	0	0	1	4.3		00
13:24	0	0	1	4.3		00
13:25	0	0	1	4.3		00
13:26	0	0	1	4.2		00
13:27	0	0	1	4.2		00
13:28	0	0	1	4.2		00
13:29	0	0	1	4.2		00
13:30	0	0	1	4.2		00
13:31	0	0	1	4.2		00
13:32	0	0	1	4.2		00
13:33	0	0	1	4.2		00
13:34	0	0	1	4.2		00
13:35	0	0	1	4.2		00
13:36	0	0	1	4.2		00
13:37	0	0	1	4.2		00
13:38	0	0	1	4.2		00
13:39	0	0	1	4.2		00
13:40	0	0	1	4.2		00
13:41	0	0	1	4.2		00
13:42	0	0	1	4.2		00
13:43	0	0	1	4.1		00
13:44	0	0	1	4.2		00
13:45	0	0	1	4.2		00
13:46	0	0	1	4.2		00
13:47	0	0	1	4.2		00
13:48	0	0	1	4.2		00
13:49	0	0	1	4.1		00
13:50	0	0	1	4.2		00
13:51	0	0	1	4.3		00
13:52	0	0	1	4.2		00
13:53	0	0	1	4.3		00
13:54	0	0	1	4.3		00
13:55	0	0	1	4.3		00
13:56	0	0	1	4.3		00
13:57	0	0	1	4.3		00
13:58	0	0	1	4.2		00
13:59	0	0	1	4.3		00
14:00	0	0	1	4.3		00
14:01	0	0	1	4.4		00
14:02	0	0	1	4.3		00
14:03	0	0	1	4.4		00
14:04	0	0	1	4.4		00

ONE MINUTE REPORT

COMPANY NAME : OKEELANTA COGENERATION
 COMPANY LOCATION : SOUTH BAY, FLORIDA
 SOURCE : BOILER #16
 CEMS ID NO : 1234
 DATE CREATED : 04-27-2004 @ 15:59
 TIME PERIOD : START:13:05 END:14:42
 REPORT DATE : 03-16-2004

TIME hh:mm	INVALID QTY	MISS QTY	VALID QTY	O2	
				RAW (%)	MC
14:05	0	0	1	4.3	00
14:06	0	0	1	4.4	00
14:07	0	0	1	4.4	00
14:08	0	0	1	4.4	00
14:09	0	0	1	4.4	00
14:10	0	0	1	4.4	00
14:11	0	0	1	4.3	00
14:12	0	0	1	4.3	00
14:13	0	0	1	4.3	00
14:14	0	0	1	4.3	00
14:15	0	0	1	4.4	00
14:16	0	0	1	4.4	00
14:17	0	0	1	4.4	00
14:18	0	0	1	4.3	00
14:19	0	0	1	4.3	00
14:20	0	0	1	4.2	00
14:21	0	0	1	4.2	00
14:22	0	0	1	4.2	00
14:23	0	0	1	4.1	00
14:24	0	0	1	4.0	00
14:25	0	0	1	4.5	00
14:26	0	0	1	4.5	00
14:27	0	0	1	4.3	00
14:28	0	0	1	3.8	00
14:29	0	0	1	3.8	00
14:30	0	0	1	3.7	00
14:31	0	0	1	3.8	00
14:32	0	0	1	3.5	00
14:33	0	0	1	3.9	00
14:34	0	0	1	4.3	00
14:35	0	0	1	4.2	00
14:36	0	0	1	4.2	00
14:37	0	0	1	4.2	00
14:38	0	0	1	4.2	00
14:39	0	0	1	4.2	00
14:40	0	0	1	4.1	00
14:41	0	0	1	4.3	00
14:42	0	0	1	4.4	00
TOTAL	0	0	98		
AVERAGE				4.2	
MINIMUM				3.5	Time: 14:32
MAXIMUM				4.5	Time: 13:11

ONE MINUTE REPORT

COMPANY NAME : OKEELANTA COGENERATION
 COMPANY LOCATION : SOUTH BAY, FLORIDA
 SOURCE : BOILER #16
 CEMS ID NO : 1234
 DATE CREATED : 04-27-2004 @ 15:58
 TIME PERIOD : START:13:05 END:14:42
 REPORT DATE : 03-16-2004

TIME hh:mm	HEAT INPUT			RAW (MMBTU/HR)	MC
	INVALID QTY	MISS QTY	VALID QTY		
14:05	0	0	1	126.7	00
14:06	0	0	1	126.8	00
14:07	0	0	1	126.2	00
14:08	0	0	1	126.3	00
14:09	0	0	1	126.3	00
14:10	0	0	1	126.4	00
14:11	0	0	1	126.4	00
14:12	0	0	1	126.4	00
14:13	0	0	1	126.4	00
14:14	0	0	1	126.3	00
14:15	0	0	1	126.3	00
14:16	0	0	1	126.4	00
14:17	0	0	1	126.4	00
14:18	0	0	1	126.5	00
14:19	0	0	1	126.5	00
14:20	0	0	1	126.5	00
14:21	0	0	1	126.5	00
14:22	0	0	1	126.6	00
14:23	0	0	1	130.6	00
14:24	0	0	1	126.4	00
14:25	0	0	1	124.7	00
14:26	0	0	1	124.6	00
14:27	0	0	1	129.9	00
14:28	0	0	1	130.6	00
14:29	0	0	1	130.5	00
14:30	0	0	1	130.5	00
14:31	0	0	1	131.6	00
14:32	0	0	1	132.9	00
14:33	0	0	1	128.7	00
14:34	0	0	1	127.3	00
14:35	0	0	1	127.9	00
14:36	0	0	1	128.0	00
14:37	0	0	1	128.1	00
14:38	0	0	1	128.1	00
14:39	0	0	1	128.1	00
14:40	0	0	1	128.1	00
14:41	0	0	1	127.4	00
14:42	0	0	1	127.1	00
TOTAL	0	0	98		
AVERAGE				127.1	
MINIMUM				124.6	Time: 14:26
MAXIMUM				132.9	Time: 14:32

ONE MINUTE REPORT

COMPANY NAME : OKEELANTA COGENERATION
 COMPANY LOCATION : SOUTH BAY, FLORIDA
 SOURCE : BOILER #16
 CEMS ID NO : 1234
 DATE CREATED : 04-27-2004 @ 15:58
 TIME PERIOD : START:13:05 END:14:42
 REPORT DATE : 03-16-2004

TIME hh:mm	HEAT INPUT			RAW (MMBTU/HR)	MC
	INVALID QTY	MISS QTY	VALID QTY		
13:05	0	0	1	127.1	00
13:06	0	0	1	127.0	00
13:07	0	0	1	127.2	00
13:08	0	0	1	129.1	00
13:09	0	0	1	127.0	00
13:10	0	0	1	126.0	00
13:11	0	0	1	126.0	00
13:12	0	0	1	125.9	00
13:13	0	0	1	126.3	00
13:14	0	0	1	128.0	00
13:15	0	0	1	127.7	00
13:16	0	0	1	127.7	00
13:17	0	0	1	127.7	00
13:18	0	0	1	126.9	00
13:19	0	0	1	125.7	00
13:20	0	0	1	125.5	00
13:21	0	0	1	125.4	00
13:22	0	0	1	126.6	00
13:23	0	0	1	126.9	00
13:24	0	0	1	126.6	00
13:25	0	0	1	126.9	00
13:26	0	0	1	126.9	00
13:27	0	0	1	127.0	00
13:28	0	0	1	127.1	00
13:29	0	0	1	127.1	00
13:30	0	0	1	127.1	00
13:31	0	0	1	127.0	00
13:32	0	0	1	127.0	00
13:33	0	0	1	127.0	00
13:34	0	0	1	127.0	00
13:35	0	0	1	127.0	00
13:36	0	0	1	127.0	00
13:37	0	0	1	127.0	00
13:38	0	0	1	127.0	00
13:39	0	0	1	127.1	00
13:40	0	0	1	127.1	00
13:41	0	0	1	127.1	00
13:42	0	0	1	127.1	00
13:43	0	0	1	127.2	00
13:44	0	0	1	127.2	00
13:45	0	0	1	127.2	00
13:46	0	0	1	127.2	00
13:47	0	0	1	127.2	00
13:48	0	0	1	127.2	00
13:49	0	0	1	126.9	00
13:50	0	0	1	126.7	00
13:51	0	0	1	126.7	00
13:52	0	0	1	126.6	00
13:53	0	0	1	126.6	00
13:54	0	0	1	126.5	00
13:55	0	0	1	126.4	00
13:56	0	0	1	126.4	00
13:57	0	0	1	126.4	00
13:58	0	0	1	126.5	00
13:59	0	0	1	126.5	00
14:00	0	0	1	126.4	00
14:01	0	0	1	126.7	00
14:02	0	0	1	126.7	00
14:03	0	0	1	126.6	00
14:04	0	0	1	126.6	00

ONE MINUTE REPORT

COMPANY NAME : OKEELANTA COGENERATION
 COMPANY LOCATION : SOUTH BAY, FLORIDA
 SOURCE : BOILER #16
 CEMS ID NO : 1234
 DATE CREATED : 04-27-2004 @ 16:01
 TIME PERIOD : START:15:00 END:16:37
 REPORT DATE : 03-16-2004

TIME hh:mm	OPACITY			RAW (%)	MC
	INVALID QTY	MISS QTY	VALID QTY		
16:00	0	0	1	0.0	00
16:01	0	0	1	0.0	00
16:02	0	0	1	0.0	00
16:03	0	0	1	0.0	00
16:04	0	0	1	0.0	00
16:05	0	0	1	0.0	00
16:06	0	0	1	0.0	00
16:07	0	0	1	0.0	00
16:08	0	0	1	0.0	00
16:09	0	0	1	0.0	00
16:10	0	0	1	0.0	00
16:11	0	0	1	0.0	00
16:12	0	0	1	0.0	00
16:13	0	0	1	0.0	00
16:14	0	0	1	0.0	00
16:15	0	0	1	0.0	00
16:16	0	0	1	0.0	00
16:17	0	0	1	0.0	00
16:18	0	0	1	0.0	00
16:19	0	0	1	0.0	00
16:20	0	0	1	0.0	00
16:21	0	0	1	0.0	00
16:22	0	0	1	0.0	00
16:23	0	0	1	0.0	00
16:24	0	0	1	0.0	00
16:25	0	0	1	0.0	00
16:26	0	0	1	0.0	00
16:27	0	0	1	0.0	00
16:28	0	0	1	0.0	00
16:29	0	0	1	0.0	00
16:30	0	0	1	0.0	00
16:31	0	0	1	0.0	00
16:32	0	0	1	0.0	00
16:33	0	0	1	0.0	00
16:34	0	0	1	0.0	00
16:35	0	0	1	0.0	00
16:36	0	0	1	0.0	00
16:37	0	0	1	0.0	00
TOTAL	0	0	98		
AVERAGE				0.0	
MINIMUM				0.0	Time: 15:00
MAXIMUM				0.0	Time: 15:00

ONE MINUTE REPORT

COMPANY NAME : OKEELANTA COGENERATION
 COMPANY LOCATION : SOUTH BAY, FLORIDA
 SOURCE : BOILER #16
 CEMS ID NO : 1234
 DATE CREATED : 04-27-2004 @ 16:01
 TIME PERIOD : START:15:00 END:16:37
 REPORT DATE : 03-16-2004

TIME hh:mm	NOx			RAW (#/mmBTU)	MC
	INVALID QTY	MISS QTY	VALID QTY		
16:00	0	0	1	0.046	00
16:01	0	0	1	0.047	00
16:02	0	0	1	0.047	00
16:03	0	0	1	0.047	00
16:04	0	0	1	0.047	00
16:05	0	0	1	0.048	00
16:06	0	0	1	0.047	00
16:07	0	0	1	0.047	00
16:08	0	0	1	0.048	00
16:09	0	0	1	0.048	00
16:10	0	0	1	0.048	00
16:11	0	0	1	0.048	00
16:12	0	0	1	0.047	00
16:13	0	0	1	0.048	00
16:14	0	0	1	0.047	00
16:15	0	0	1	0.047	00
16:16	0	0	1	0.047	00
16:17	0	0	1	0.046	00
16:18	0	0	1	0.046	00
16:19	0	0	1	0.047	00
16:20	0	0	1	0.048	00
16:21	0	0	1	0.047	00
16:22	0	0	1	0.048	00
16:23	0	0	1	0.048	00
16:24	0	0	1	0.048	00
16:25	0	0	1	0.049	00
16:26	0	0	1	0.048	00
16:27	0	0	1	0.049	00
16:28	0	0	1	0.050	00
16:29	0	0	1	0.049	00
16:30	0	0	1	0.049	00
16:31	0	0	1	0.048	00
16:32	0	0	1	0.048	00
16:33	0	0	1	0.048	00
16:34	0	0	1	0.047	00
16:35	0	0	1	0.047	00
16:36	0	0	1	0.048	00
16:37	0	0	1	0.048	00
TOTAL	0	0	98		
AVERAGE				0.048	
MINIMUM				0.045	Time: 15:15
MAXIMUM				0.050	Time: 15:00

ONE MINUTE REPORT

COMPANY NAME : OKEELANTA COGENERATION
 COMPANY LOCATION : SOUTH BAY, FLORIDA
 SOURCE : BOILER #16
 CEMS ID NO : 1234
 DATE CREATED : 04-27-2004 @ 16:01
 TIME PERIOD : START:15:00 END:16:37
 REPORT DATE : 03-16-2004

TIME hh:mm	INVALID QTY	MISS QTY	VALID QTY	NOx	
				RAW (#/mmBTU)	MC
15:00	0	0	1	0.050	00
15:01	0	0	1	0.049	00
15:02	0	0	1	0.048	00
15:03	0	0	1	0.048	00
15:04	0	0	1	0.048	00
15:05	0	0	1	0.048	00
15:06	0	0	1	0.047	00
15:07	0	0	1	0.046	00
15:08	0	0	1	0.048	00
15:09	0	0	1	0.048	00
15:10	0	0	1	0.047	00
15:11	0	0	1	0.047	00
15:12	0	0	1	0.046	00
15:13	0	0	1	0.046	00
15:14	0	0	1	0.046	00
15:15	0	0	1	0.045	00
15:16	0	0	1	0.046	00
15:17	0	0	1	0.047	00
15:18	0	0	1	0.046	00
15:19	0	0	1	0.049	00
15:20	0	0	1	0.047	00
15:21	0	0	1	0.047	00
15:22	0	0	1	0.047	00
15:23	0	0	1	0.047	00
15:24	0	0	1	0.047	00
15:25	0	0	1	0.047	00
15:26	0	0	1	0.047	00
15:27	0	0	1	0.048	00
15:28	0	0	1	0.048	00
15:29	0	0	1	0.047	00
15:30	0	0	1	0.047	00
15:31	0	0	1	0.048	00
15:32	0	0	1	0.048	00
15:33	0	0	1	0.047	00
15:34	0	0	1	0.048	00
15:35	0	0	1	0.048	00
15:36	0	0	1	0.048	00
15:37	0	0	1	0.048	00
15:38	0	0	1	0.049	00
15:39	0	0	1	0.048	00
15:40	0	0	1	0.048	00
15:41	0	0	1	0.047	00
15:42	0	0	1	0.047	00
15:43	0	0	1	0.047	00
15:44	0	0	1	0.048	00
15:45	0	0	1	0.048	00
15:46	0	0	1	0.048	00
15:47	0	0	1	0.049	00
15:48	0	0	1	0.049	00
15:49	0	0	1	0.049	00
15:50	0	0	1	0.048	00
15:51	0	0	1	0.048	00
15:52	0	0	1	0.048	00
15:53	0	0	1	0.047	00
15:54	0	0	1	0.047	00
15:55	0	0	1	0.047	00
15:56	0	0	1	0.048	00
15:57	0	0	1	0.049	00
15:58	0	0	1	0.048	00
15:59	0	0	1	0.047	00

ONE MINUTE REPORT

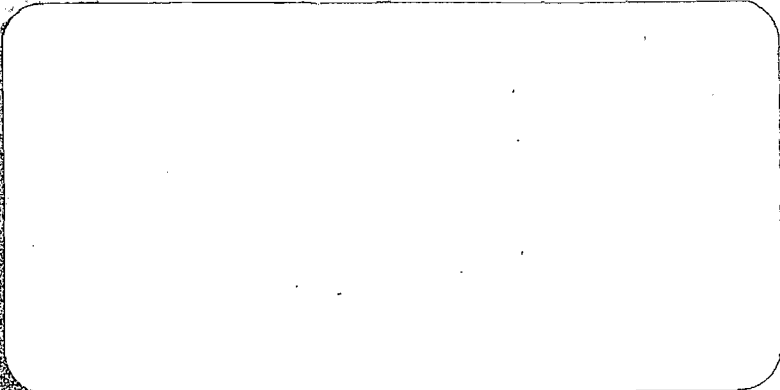
COMPANY NAME : OKEELANTA COGENERATION
 COMPANY LOCATION : SOUTH BAY, FLORIDA
 SOURCE : BOILER #16
 CEMS ID NO : 1234
 DATE CREATED : 04-27-2004 @ 16:01
 TIME PERIOD : START:15:00 END:16:37
 REPORT DATE : 03-16-2004

TIME hh:mm	O2			RAW (%)	MC
	INVALID QTY	MISS QTY	VALID QTY		
15:00	0	0	1	4.3	00
15:01	0	0	1	4.2	00
15:02	0	0	1	4.2	00
15:03	0	0	1	4.1	00
15:04	0	0	1	4.1	00
15:05	0	0	1	4.1	00
15:06	0	0	1	4.1	00
15:07	0	0	1	3.6	00
15:08	0	0	1	4.2	00
15:09	0	0	1	4.3	00
15:10	0	0	1	4.1	00
15:11	0	0	1	4.0	00
15:12	0	0	1	3.9	00
15:13	0	0	1	3.9	00
15:14	0	0	1	3.8	00
15:15	0	0	1	3.5	00
15:16	0	0	1	3.4	00
15:17	0	0	1	3.8	00
15:18	0	0	1	3.9	00
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15:20	0	0	1	4.4	00
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15:22	0	0	1	4.3	00
15:23	0	0	1	4.2	00
15:24	0	0	1	4.1	00
15:25	0	0	1	4.1	00
15:26	0	0	1	4.1	00
15:27	0	0	1	4.2	00
15:28	0	0	1	4.2	00
15:29	0	0	1	4.1	00
15:30	0	0	1	4.1	00
15:31	0	0	1	4.2	00
15:32	0	0	1	4.2	00
15:33	0	0	1	4.2	00
15:34	0	0	1	4.2	00
15:35	0	0	1	4.2	00
15:36	0	0	1	4.2	00
15:37	0	0	1	4.2	00
15:38	0	0	1	4.3	00
15:39	0	0	1	4.1	00
15:40	0	0	1	4.2	00
15:41	0	0	1	4.1	00
15:42	0	0	1	4.1	00
15:43	0	0	1	4.2	00
15:44	0	0	1	4.2	00
15:45	0	0	1	4.2	00
15:46	0	0	1	4.2	00
15:47	0	0	1	4.2	00
15:48	0	0	1	4.2	00
15:49	0	0	1	4.1	00
15:50	0	0	1	4.1	00
15:51	0	0	1	4.0	00
15:52	0	0	1	4.1	00
15:53	0	0	1	4.0	00
15:54	0	0	1	4.0	00
15:55	0	0	1	4.0	00
15:56	0	0	1	4.0	00
15:57	0	0	1	4.1	00
15:58	0	0	1	4.0	00
15:59	0	0	1	4.0	00

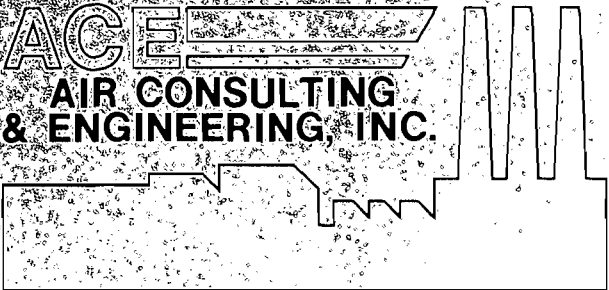
ONE MINUTE REPORT

COMPANY NAME : OKEELANTA COGENERATION
 COMPANY LOCATION : SOUTH BAY, FLORIDA
 SOURCE : BOILER #16
 CEMS ID NO : 1234
 DATE CREATED : 04-27-2004 @ 16:01
 TIME PERIOD : START:15:00 END:16:37
 REPORT DATE : 03-16-2004


TIME hh:mm	HEAT INPUT			RAW (MMBTU/HR)	MC
	INVALID QTY	MISS QTY	VALID QTY		
16:00	0	0	1	126.8	00
16:01	0	0	1	126.8	00
16:02	0	0	1	126.9	00
16:03	0	0	1	126.9	00
16:04	0	0	1	126.9	00
16:05	0	0	1	127.0	00
16:06	0	0	1	127.0	00
16:07	0	0	1	127.1	00
16:08	0	0	1	127.1	00
16:09	0	0	1	127.1	00
16:10	0	0	1	127.2	00
16:11	0	0	1	127.1	00
16:12	0	0	1	127.1	00
16:13	0	0	1	127.1	00
16:14	0	0	1	127.2	00
16:15	0	0	1	127.2	00
16:16	0	0	1	127.1	00
16:17	0	0	1	127.2	00
16:18	0	0	1	127.2	00
16:19	0	0	1	127.3	00
16:20	0	0	1	127.3	00
16:21	0	0	1	127.3	00
16:22	0	0	1	127.3	00
16:23	0	0	1	127.3	00
16:24	0	0	1	126.7	00
16:25	0	0	1	126.6	00
16:26	0	0	1	126.6	00
16:27	0	0	1	126.5	00
16:28	0	0	1	126.8	00
16:29	0	0	1	127.4	00
16:30	0	0	1	127.4	00
16:31	0	0	1	127.4	00
16:32	0	0	1	127.5	00
16:33	0	0	1	127.5	00
16:34	0	0	1	127.5	00
16:35	0	0	1	127.5	00
16:36	0	0	1	127.5	00
16:37	0	0	1	127.6	00
TOTAL	0	0	98		
AVERAGE				126.5	
MINIMUM				123.0	Time: 15:19
MAXIMUM				131.9	Time: 15:15



ACE
AIR CONSULTING
& ENGINEERING, INC.



2106 N.W. 67th Place • Suite 4 • Gainesville, Florida • 32653
(352) 335-1889 FAX (352) 335-1891



**SOURCE TEST REPORT
FOR
CARBON MONOXIDE EMISSIONS
AND
OXIDES OF NITROGEN EMISSIONS
FROM
CERTIFIED CONTINUOUS NO_x MONITOR**

BOILER NUMBER 16

**OKEELANTA CORPORATION
SOUTH BAY, FLORIDA**

**FDEP PERMIT NUMBER 0990005-009-AC
PSD-FL-169A**

MARCH 16, 2004

PREPARED FOR:

**OKEELANTA CORPORATION
6 MILES SOUTH OF SOUTH BAY
U.S. HIGHWAY 27
SOUTH BAY, FLORIDA 33493**

PREPARED BY:

**AIR CONSULTING AND ENGINEERING, INC.
2106 NW 67TH PLACE, SUITE 4
GAINESVILLE, FLORIDA 32653
(352) 335-1889**

345-04-01

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APPENDICES

APPENDIX A--COMPLETE EMISSION DATA

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APPENDIX C--QUALITY ASSURANCE

APPENDIX D--PLANT DATA

APPENDIX E--PROJECT PARTICIPANTS

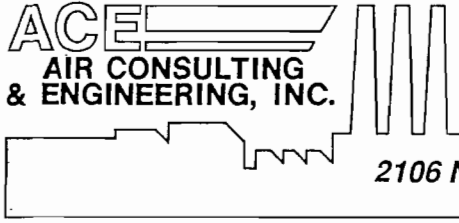
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REPORT CERTIFICATION

To the best of my knowledge, all applicable field and analytical procedures comply with the Florida Department of Environmental Protection requirements and all test data and plant operating data are true and correct.

Dagmar Fick
Dagmar Fick, Mechanical Engineer

4/9/2004
Date

1.0 INTRODUCTION

On March 16, 2004, Air Consulting and Engineering, Inc. (ACE) performed annual emission compliance testing for Carbon Monoxide Emissions (CO) on the Scrubber Exhaust of Boiler 16 at Okeelanta Corporation (Okeelanta) in South Bay, Florida in conjunction with the required NO_x Relative Accuracy Test Audit (RATA).

Testing was conducted using United States Environmental Protection Agency (EPA) Methods 10 (CO) and 3A for O₂.

Mr. David Brown of the HRS in West Palm Beach observed a portion of the testing.

2.0 SUMMARY AND DISCUSSION OF RESULTS

Boiler 16 was operating within the permitted compliance limits. Table 1 summarizes emission results and flue gas parameters. The unit was fired on natural gas.

Carbon monoxide emissions averaged 0.011 pounds per million BTU (lbs/MMBTU) of heat input to the boiler and 1.33 lbs/hr, which is within the permitted values of 0.10 lbs/MMBTU and 21.1 lbs/hr.

According to permit conditions, the data collected by the certified continuous NO_x monitor were summarized for each CO run to demonstrate compliance with NO_x limits. Oxides of nitrogen emissions averaged 0.0453 lbs/MMBTU and 5.76 lbs/hr, which is within the permitted limit of 0.10 lbs/MMBTU for the 24-hour block and 24.2 lbs/hr.

Complete emission summary and data logger records with strip chart copies are presented in Appendices A and B, respectively. Plant CEM records are provided in Appendix D.

Table 1. CO and NOx Emission Summary
Boiler 16
Okeelanta Corporation
South Bay, Florida
March 16, 2004

Run Number	Time	Oxygen %	CO Emissions			NOx Emissions from Plant CEM Data		
			ppm	lbs/MMBTU	lbs/hr	ppm	lbs/MMBTU	lbs/hr
1	1036-1234	4.91	14.23	0.0118	1.51	34.3	0.0466	5.95
2	1255-1432	4.66	12.29	0.0112	1.28	33.9	0.0454	5.78
3	1450-1626	4.43	11.70	0.0093	1.20	33.0	0.0438	5.54
Average	---	4.67	12.74	0.0108	1.33	33.7	0.0453	5.76

Fd = Fuel Oil Factor = 8710 MMBTU/dscf
lbs/MMBTU = ppm(2.595 x 10⁻⁹)MW (20.9/20.9-%O2)(Fd)
lbs/hr = (lbs/MMBTU x Heat Input MMBTUH)
MW CO = 28 lbs/lb-mole MW NOx = 46 lbs/lb-mole

Allowable Emissions

CO = 0.10 lbs/MMBTU and 21.1 lbs/hr
NOx = 0.10 lbs/MMBTU and 24.2 lbs/hr

3.0 PROCESS DESCRIPTION AND OPERATION

Okeelanta operates a Babcock and Wilcox Model FM 120-97 package boiler using low NOx burners. The unit is fired on natural gas and low sulfur distillate fuel oil at a rate of 211 (natural gas) and 202 (oil) million BTU per hour input. Steam production is rated at 150,000 pounds per hour.

During the compliance test, Boiler 16 was fired with natural gas at heat input rate of 127.4 MMBTU/hr with an average steam production of 77,384 lbs/hr.

Production logs for this test are provided in Appendix D.