Bruce Thomas

Vandolah

September 17, 2007

RECEIVED

SEP 24 2007

BUREAU OF AIR REGULATION

Mr. Bruce Thomas
Florida Department of Environmental Protection
Division of Air Resource Management
2600 Blair Stone Road MS 5500
Tallahassee, FL 32399-6979

RE: Concurrent Construction Permit/Title V Operating Permit Revision
Vandolah Power Company, Wauchula, Hardee County, Florida
Facility ID 0490043
Project No.: 0490043-006-AC | 0490043-001-AV

Dear Mr. Thomas:

Vandolah Power Company submitted a Title V Operating permit renewal application on June 4, 2007. In this Title V operating permit renewal application, Vandolah requested several changes to their current Title V operating permit. After your review of the requested changes, you advised us that the following requested change would require a concurrent PSD construction permit and Title V operating permit revision:

Add the following:

> *For each combustion turbine that fires natural gas for less than 400 hours during the previous fiscal year, the annual performance (compliance) tests for firing natural gas for the current fiscal year of operation are not required.*
>
> *For each combustion turbine that fires distillate oil for less than 400 hours during the previous fiscal year, the annual performance (compliance) tests for firing distillate oil for the current fiscal year of operation are not required.*

Therefore, Vandolah is submitting the enclosed concurrent PSD construction permit and Title V operating permit revision application for your processing. We have also included the requested compliance test results for the previous 5 years as well as the hours of operation while firing both pipeline quality natural gas and fuel oil for the previous 5 years.

Vandolah Power Company L.L.C. 2394 Vandolah Road Wauchula, FL 33873
Tel (863)-773-2277 Fac (863) 773-5908

If you have any questions concerning this submittal, please call me at 863-773-2277 ext. 2222 or Chris Coombs, Environmental & Safety Manager, Vandolah Power Company at 863-773-2277, ext. 2228.

Sincerely,

Douglas A Jensen
Plant Manager
Vandolah Power Company

cc: C. Coombs, Vandolah Power Company
T. W. Davis, ECT
W. F. Karl, ECT

RECEIVED
SEP 24 2007
BUREAU OF AIR REGULATION

VANDOLAH POWER PROJECT
CONCURRENT PREVENTION OF SIGNIFICANT DETERIORATION/TITLE V PERMIT REVISION APPLICATION

Prepared for:

VANDOLAH POWER COMPANY L.L.C.
WAUCHULA, FLORIDA

Prepared by:

Environmental Consulting & Technology, Inc.
3701 Northwest 98th Street
Gainesville, Florida 32606

ECT No. 070942-0100

September 2007

Department of Environmental Protection

Division of Air Resource Management

APPLICATION FOR AIR PERMIT - LONG FORM

I. APPLICATION INFORMATION

Air Construction Permit – Use this form to apply for any air construction permit at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air permit. Also use this form to apply for an air construction permit:

- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment area (NAA) new source review, or maximum achievable control technology (MACT) review; or
- Where the applicant proposes to assume a restriction on the potential emissions of one or more pollutants to escape a federal program requirement such as PSD review, NAA new source review, Title V, or MACT; or
- Where the applicant proposes to establish, revise, or renew a plantwide applicability limit (PAL).

Air Operation Permit – Use this form to apply for:

- An initial federally enforceable state air operation permit (FESOP); or
- An initial/revised/renewal Title V air operation permit.

Air Construction Permit & Title V Air Operation Permit (Concurrent Processing Option) – Use this form to apply for both an air construction permit and a revised or renewal Title V air operation permit incorporating the proposed project.

To ensure accuracy, please see form instructions.

Identification of Facility

1. Facility Owner/Company Name: **Vandolah Power Company L.L.C.**	
2. Site Name: **Vandolah Power Project**	
3. Facility Identification Number: **0490043**	
4. Facility Location... Street Address or Other Locator: **2394 Vandolah Road** City: **Wauchula** County: **Hardee** Zip Code: **33873**	
5. Relocatable Facility? ☐ Yes ☒ No	6. Existing Title V Permitted Facility? ☒ Yes ☐ No

Application Contact

1. Application Contact Name: **Mr. Chris Coombs**
2. Application Contact Mailing Address... Organization/Firm: **Vandolah Power Company** Street Address: **2394 Vandolah Road** City: **Wauchula** State: **Florida** Zip Code: **33873**
3. Application Contact Telephone Numbers... Telephone: **(863) 773 - 2277** ext. **2228** Fax: **(863) 773 - 5908**
4. Application Contact Email Address: **chris.coombs@northernstargen.com**

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	3. PSD Number (if applicable):
2. Project Number(s): 0490043-006-AC 0490043-001-AV	4. Siting Number (if applicable):

APPLICATION INFORMATION

Purpose of Application

This application for air permit is submitted to obtain: (Check one)

Air Construction Permit

☐ Air construction permit.

☐ Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL).

☐ Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL), and separate air construction permit to authorize construction or modification of one or more emissions units covered by the PAL.

Air Operation Permit

☐ Initial Title V air operation permit.

☐ Title V air operation permit revision.

☐ Title V air operation permit renewal.

☐ Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.

☐ Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit (Concurrent Processing)

☒ Air construction permit and Title V permit revision, incorporating the proposed project.

☐ Air construction permit and Title V permit renewal, incorporating the proposed project.

Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box:

☐ I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.

Application Comment

This application is being submitted to administratively change PSD permit number PSD-FL-275 and Title V Operating permit 0490043-005-AV to include the following permit conditions:

For each combustion turbine that fires natural gas for less than 400 hours during the previous fiscal year, the annual performance (compliance) tests for firing natural gas for the current fiscal year of operation are not required.

For each combustion turbine that fires distillate oil for less than 400 hours during the previous fiscal year, the annual performance (compliance) tests for firing distillate oil for the current fiscal year of operation are not required.

APPLICATION INFORMATION

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Proc. Fee
001	One nominal 170 Megawatt Gas Simple Cycle Combustion Turbine-Electrical generator	N/A	N/A
002	One nominal 170 Megawatt Gas Simple Cycle Combustion Turbine-Electrical generator	N/A	N/A
003	One nominal 170 Megawatt Gas Simple Cycle Combustion Turbine-Electrical generator	N/A	N/A
004	One nominal 170 Megawatt Gas Simple Cycle Combustion Turbine-Electrical generator	N/A	N/A

Application Processing Fee

Check one: ☐ Attached - Amount: $_____ ☒ Not Applicable

APPLICATION INFORMATION

Owner/Authorized Representative Statement

Complete if applying for an air construction permit or an initial FESOP.

1. Owner/Authorized Representative Name :

2. Owner/Authorized Representative Mailing Address...
   Organization/Firm:
   Street Address:
   City: State: Zip Code:

3. Owner/Authorized Representative Telephone Numbers...
   Telephone: ( ) - ext. Fax: ( ) -

4. Owner/Authorized Representative Email Address:

5. Owner/Authorized Representative Statement:

   I, the undersigned, am the owner or authorized representative of the facility 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 requirements identified in this application to which the facility 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.

   _____ _____
   Signature Date

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: **Mr. Douglas A. Jensen**

2. Application Responsible Official Qualification (Check one or more of the following options, as applicable):

   ☒ 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.

   ☐ For a partnership or sole proprietorship, a general partner or the proprietor, respectively.

   ☐ For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official.

   ☐ The designated representative at an Acid Rain source.

3. Application Responsible Official Mailing Address...
   Organization/Firm: **Vandolah Power Company**
   Street Address: **2394 Vandolah Road**
   City: **Wauchula** State: **Florida** Zip Code: **33873**

4. Application Responsible Official Telephone Numbers...
   Telephone: **(863) 773 - 2277** ext. **2222** Fax: **(863) 773 - 5908**

5. Application Responsible Official Email Address: **doug.jensen@northernstargen.com**

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 9-18-07 Date

APPLICATION INFORMATION

Professional Engineer Certification

1. Professional Engineer Name: **Thomas W. Davis**
   Registration Number: **36777**
2. Professional Engineer Mailing Address...
   Organization/Firm: **Environmental Consulting & Technology, Inc.**
   Street Address: **3701 NW 98th Street**
   City: **Gainesville** State: **Florida** Zip Code: **32606**
3. Professional Engineer Telephone Numbers...
   Telephone: **(352) 332 - 0444** ext. **11351** Fax: **(352) 332 - 6722**
4. Professional Engineer Email Address: **tdavis@ectinc.com**
5. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(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

(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.

(3) If the purpose of this application is to obtain a Title V air operation permit (check here ☐, 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.

(4) If the purpose of this application is to obtain an air construction permit (check here ☐, 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 ☒, 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.

(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 ☐, 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.

Signature 9/21/07
Date

(seal) STATE OF FLORIDA

* Attach any exception to certification statement.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates... Zone **17** East (km) **407.85** North (km) **3044.5**		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) **27° 31' 22"** Longitude (DD/MM/SS) **81° 55' 28"**	
3. Governmental Facility Code: **0**	4. Facility Status Code: **A**	5. Facility Major Group SIC Code: **49**	6. Facility SIC(s): **4911**
7. Facility Comment :			

Facility Contact

1. Facility Contact Name: **Mr. Chris Coombs**
2. Facility Contact Mailing Address... Organization/Firm: **Vandolah Power Company** Street Address: **2394 Vandolah Road** City: **Wauchula** State: **Florida** Zip Code: **33873**
3. Facility Contact Telephone Numbers: Telephone: **(863) 773 - 2277** ext. **2228** Fax: **(863) 773 - 5908**
4. Facility Contact Email Address: **chris.coombs@northernstargen.com**

Facility Primary Responsible Official

Complete if an "application responsible official" is identified in Section I. that is not the facility "primary responsible official."

1. Facility Primary Responsible Official Name:
2. Facility Primary Responsible Official Mailing Address... Organization/Firm: Street Address: City: State: Zip Code:
3. Facility Primary Responsible Official Telephone Numbers... Telephone: ( ) - ext. Fax: ( ) -
4. Facility Primary Responsible Official Email Address:

FACILITY INFORMATION

Facility Regulatory Classifications

Check all that would apply *following* completion of all projects and implementation of all other changes proposed in this application for air permit. Refer to instructions to distinguish between a "major source" and a "synthetic minor source."

1. ☐ Small Business Stationary Source	☐ Unknown
2. ☐ Synthetic Non-Title V Source	
3. ☒ Title V Source	
4. ☒ Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)	
5. ☐ Synthetic Minor Source of Air Pollutants, Other than HAPs	
6. ☐ Major Source of Hazardous Air Pollutants (HAPs)	
7. ☐ Synthetic Minor Source of HAPs	
8. ☒ One or More Emissions Units Subject to NSPS (40 CFR Part 60)	
9. ☐ One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)	
10. ☐ One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)	
11. ☐ Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))	
12. Facility Regulatory Classifications Comment:	

FACILITY INFORMATION

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
NOX	**A**	**N**
CO	**A**	**N**
VOC	**A**	**N**
SO2	**A**	**N**
PM	**A**	**N**
PM10	**A**	**N**

B. EMISSIONS CAPS

Facility-Wide or Multi-Unit Emissions Caps

1. Pollutant Subject to Emissions Cap	2. Facility Wide Cap [Y or N]? (all units)	3. Emissions Un ID No.s Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap
NOX	**Y**		**N/A**	**1,008.4**	**OTHER**
CO	**Y**		**N/A**	**346.0**	**OTHER**
VOC	**Y**		**N/A**	**45.6**	**OTHER**
SO2	**Y**		**N/A**	**221.2**	**OTHER**
PM/PM10	**Y**		**N/A**	**82.0**	**OTHER**

7. Facility-Wide or Multi-Unit Emissions Cap Comment:

Facility-Wide emissions cap is based on each CT operating up to an average of 3,390 hours per year, of which, 1,000 hours per year on distillate fuel oil.

C. FACILITY ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Facility Plot Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
   ☐ Attached, Document ID:_____ ☒ Previously Submitted, Date: 6/4/2007
2. Process Flow Diagram(s): (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
   ☐ Attached, Document ID:_____ ☒ Previously Submitted, Date: 6/4/2007
3. Precautions to Prevent Emissions of Unconfined Particulate Matter: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)
   ☐ Attached, Document ID:_____ ☒ Previously Submitted, Date: 6/4/2007

Additional Requirements for Air Construction Permit Applications

1. Area Map Showing Facility Location:
   ☐ Attached, Document ID:_____ ☐ Not Applicable (existing permitted facility)
2. Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL)
   ☐ Attached, Document ID:_____
3. Rule Applicability Analysis:
   ☐ Attached, Document ID:_____
4. List of Exempt Emissions Units (Rule 62-210.300(3), F.A.C.):
   ☐ Attached, Document ID:_____ ☐ Not Applicable (no exempt units at facility)
5. Fugitive Emissions Identification:
   ☐ Attached, Document ID:_____ ☐ Not Applicable
6. Air Quality Analysis (Rule 62-212.400(7), F.A.C.):
   ☐ Attached, Document ID:_____ ☐ Not Applicable
7. Source Impact Analysis (Rule 62-212.400(5), F.A.C.):
   ☐ Attached, Document ID:_____ ☐ Not Applicable
8. Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.):
   ☐ Attached, Document ID:_____ ☐ Not Applicable
9. Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.):
   ☐ Attached, Document ID:_____ ☐ Not Applicable
10. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.):
    ☐ Attached, Document ID:_____ ☐ Not Applicable

FACILITY INFORMATION

Additional Requirements for FESOP Applications

1. List of Exempt Emissions Units (Rule 62-210.300(3)(a) or (b)1., F.A.C.):
   ☐ Attached, Document ID:_____ ☐ Not Applicable (no exempt units at facility)

Additional Requirements for Title V Air Operation Permit Applications

1. List of Insignificant Activities (Required for initial/renewal applications only):
   ☐ Attached, Document ID:_____ ☒ Not Applicable (revision application)

2. Identification of Applicable Requirements (Required for initial/renewal applications, and for revision applications if this information would be changed as a result of the revision being sought):
   ☐ Attached, Document ID:_____
   ☒ Not Applicable (revision application with no change in applicable requirements)

3. Compliance Report and Plan (Required for all initial/revision/renewal applications):
   ☒ Attached, Document ID: Previously submitted on 6/4/2007.
   Note: A compliance plan must be submitted for each emissions unit that is not in compliance with all applicable requirements at the time of application and/or at any time during application processing. The department must be notified of any changes in compliance status during application processing.

4. List of Equipment/Activities Regulated under Title VI (If applicable, required for initial/renewal applications only):
   ☐ Attached, Document ID:_____
   ☐ Equipment/Activities On site but Not Required to be Individually Listed
   ☒ Not Applicable

5. Verification of Risk Management Plan Submission to EPA (If applicable, required for initial/renewal applications only) :
   ☐ Attached, Document ID:_____ ☒ Not Applicable

6. Requested Changes to Current Title V Air Operation Permit:
   ☐ Attached, Document ID:_____ ☒ Not Applicable

Additional Requirements Comment

The following additional information was requested by FDEP and is being provided in support of this concurrent construction/operation permit revision application:

Attachment A – Copies of the compliance test results for the previous 5 years
Attachment B – Hours of operation for each combustion turbine on fuel oil and pipeline quality natural gas for the previous 5 years

ATTACHMENT A

fac
Fuller Air Compliance

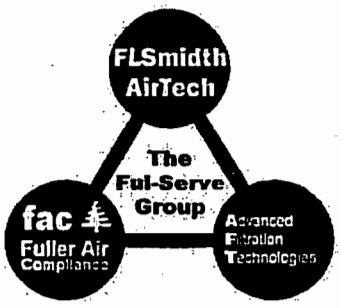
Virginia Office
1401 Municipal Road NW
Roanoke, VA 24012
Phone: (540) 265-1987
Fax: (540) 265-0082

Pennsylvania Office
449 Veit Road
Huntingdon Valley, PA 19006
Phone: (215) 364-8940
Fax: (215) 364-4596

Test Report for Annual Compliance Testing Conducted on Combustion Turbine Units 1 through 4 at Vandolah Power Project in Wauchula, FL

Prepared for El Paso Power Operations
Wauchula, FL

Test Dates: May 19-22, 2003
Draft Report Date: June 16, 2003
Final Report Date: June 27, 2003



1-877-Ful-Serve

FAC Contract Number ACGVT3121

Table 2 - Summary of NO_X, CO, and Visible Emissions at Vandolah Power Company: Unit 1 (May 19, 2003)

NATURAL GAS

NO_X Emissions

Run Number	Start Time	End Time	NOx (ppmdv)	O_2 (%dv)	Combustor Inlet Pressure (mm Hg) Obs.	Ref.	Ambient Humidity (g H_2O/g air)	Ambient Temperature (F)	(K)	NOx Concentration (ppmdv @ 15% O_2)	(lb/MMBtu)[1]	NOx Mass Emissions (MMBtu/hr)	(lb/hr)	(lb/hr, adj)
U1-GAS-RUN1	08:31	09:36	7.43	13.63	771.8	764.3	0.0203	87.0	303.7	6.02	0.0222	1650.3	36.61	43.80
U1-GAS-RUN2	09:54	11:08	7.47	13.60	771.8	764.3	0.0207	94.0	307.6	6.04	0.0222	1642.6	36.53	43.19
U1-GAS-RUN3	11:19	12:27	7.66	13.55	771.8	764.3	0.0207	94.0	307.6	6.14	0.0226	1636.1	37.01	43.76
Average			7.52	13.59						6.07	0.0223	1643.0	36.72	43.58

CO Emissions

Run Number	Start Time	End Time	CO (ppmdv)	O_2 (%dv)	Combustor Inlet Pressure (mm Hg) Obs.	Ref.	Ambient Humidity (g H_2O/g air)	Ambient Temperature (F)	(K)	CO Concentration (ppmdv @ 15% O_2)	(lb/MMBtu)[1]	CO Mass Emissions (MMBtu/hr)	(lb/hr)	(lb/hr, adj)
U1-GAS-RUN1	08:31	09:36	0.27	13.63	771.8	764.3	0.0203	87.0	303.7	0.21	0.0005	1650.3	0.80	0.95
U1-GAS-RUN2	09:54	11:08	0.19	13.60	771.8	764.3	0.0207	94.0	307.6	0.15	0.0003	1642.6	0.57	0.67
U1-GAS-RUN3	11:19	12:27	0.20	13.55	771.8	764.3	0.0207	94.0	307.6	0.16	0.0004	1636.1	0.57	0.68
Average			0.22	13.59						0.17	0.0004	1643.0	0.65	0.77

Visible Emissions

Run Number	U1-M9-R1	U1-M9-R2	U1-M9-R3	
Start Time	8:31	9:31	10:31	
End Time	9:31	10:31	11:31	Average
Opacity (%)	0.0	0.0	0.0	0.0

FUEL OIL

NO_X Emissions

Run Number	Start Time	End Time	NOx (ppmdv)	O_2 (%dv)	Combustor Inlet Pressure (mm Hg) Obs.	Ref.	Ambient Humidity (g H_2O/g air)	Ambient Temperature (F)	(K)	NOx Concentration (ppmdv @ 15% O_2)	(lb/MMBtu)[1]	NOx Mass Emissions (MMBtu/hr)	(lb/hr)	(lb/hr, adj)
U1-OIL-RUN1	16:27	17:27	45.25	12.39	770.3	764.3	0.0210	84.0	302.0	31.37	0.1219	1868.5	227.84	278.84
U1-OIL-RUN2	17:34	18:34	44.74	12.41	770.3	764.3	0.0215	82.0	300.9	31.09	0.1209	1924.6	232.58	268.99
U1-OIL-RUN3	18:41	19:41	44.92	12.44	770.3	764.3	0.0148	73.0	295.9	31.33	0.1216	1982.0	241.34	270.88
Average			44.97	12.41						31.26	0.1215	1925.0	233.93	279.57

CO Emissions

Run Number	Start Time	End Time	CO (ppmdv)	O_2 (%dv)	Combustor Inlet Pressure (mm Hg) Obs.	Ref.	Ambient Humidity (g H_2O/g air)	Ambient Temperature (F)	(K)	CO Concentration (ppmdv @ 15% O_2)	(lb/MMBtu)[1]	CO Mass Emissions (MMBtu/hr)	(lb/hr)	(lb/hr, adj)
U1-OIL-RUN1	16:27	17:27	0.84	12.39	770.3	764.3	0.0210	84.0	302.0	0.58	0.0014	1868.5	2.57	3.15
U1-OIL-RUN2	17:34	18:34	0.62	12.41	770.3	764.3	0.0215	82.0	300.9	0.43	0.0010	1924.6	1.96	2.44
U1-OIL-RUN3	18:41	19:41	0.34	12.44	770.3	764.3	0.0148	73.0	295.9	0.24	0.0006	1982.0	1.11	1.25
Average			0.60	12.41						0.42	0.0010	1925.0	1.88	2.28

Visible Emissions

Run Number	U1-M9-R4	U1-M9-R5	U1-M9-R6	
Start Time	16:27	17:27	18:27	
End Time	17:27	18:27	19:27	Average
Opacity (%)	0.0	0.0	0.0	0.0

[1] Calculated using conversion factors (ppm => lb/scf) found in Appendix F, and a fuel factor (Fd: dry, oxygen-based) of 8710 dscf/MMBtu for natural gas and 9190 dscf/MMBtu for fuel oil.

Table 3 - Summary of NO_X, CO, and Visible Emissions at Vandolah Power Company: Unit 2 (May 20, 2003)

NATURAL GAS

NO_X Emissions

Run Number	Start Time	End Time	NOx (ppmdv)	O_2 (%dv)	Combustor Inlet Pressure (mm Hg) Obs.	Ref.	Ambient Humidity (g H_2O/g air)	Ambient Temperature (F)	(K)	NOx Concentration (ppmdv @ 15% O_2)	(lb/MMBtu)[1]	NOx Mass Emissions (MMBtu/hr)	(lb/hr)	(lb/hr, gc)
U2-GAS-RUN1	08:47	09:55	7.19	13.71	771.6	764.1	0.0168	82.0	300.9	5.89	0.0217	1642.4	35.65	40.47
U2-GAS-RUN2	10:04	11:13	7.02	13.72	771.6	764.1	0.0198	89.0	304.8	5.77	0.0213	1645.0	34.96	41.20
U2-GAS-RUN3	11:21	12:30	7.08	13.70	771.6	764.1	0.0236	95.0	308.2	5.79	0.0213	1636.1	34.92	43.50
Average			7.09	13.71						5.82	0.0214	1641.2	35.18	41.72

CO Emissions

Run Number	Start Time	End Time	CO (ppmdv)	O_2 (%dv)	Combustor Inlet Pressure (mm Hg) Obs.	Ref.	Ambient Humidity (g H_2O/g air)	Ambient Temperature (F)	(K)	CO Concentration (ppmdv @ 15% O_2)	(lb/MMBtu)[1]	CO Mass Emissions (MMBtu/hr)	(lb/hr)	(lb/hr, gc)
U2-GAS-RUN1	08:47	09:55	0.18	13.71	771.6	764.1	0.0168	82.0	300.9	0.14	0.0003	1642.4	0.53	0.60
U2-GAS-RUN2	10:04	11:13	0.27	13.72	771.6	764.1	0.0198	89.0	304.8	0.22	0.0005	1645.0	0.82	0.96
U2-GAS-RUN3	11:21	12:30	0.25	13.70	771.6	764.1	0.0236	95.0	308.2	0.20	0.0004	1636.1	0.74	0.92
Average			0.23	13.71						0.19	0.0004	1641.2	0.69	0.83

Visible Emissions

Run Number	U2-M9-R1	U2-M9-R2	U2-M9-R3	
Start Time	8:27	9:27	10:27	
End Time	9:27	10:27	11:27	Average
Opacity (%)	0.0	0.0	0.0	0.0

FUEL OIL

NO_X Emissions

Run Number	Start Time	End Time	NOx (ppmdv)	O_2 (%dv)	Combustor Inlet Pressure (mm Hg) Obs.	Ref.	Ambient Humidity (g H_2O/g air)	Ambient Temperature (F)	(K)	NOx Concentration (ppmdv @ 15% O_2)	(lb/MMBtu)[1]	NOx Mass Emissions (MMBtu/hr)	(lb/hr)	(lb/hr, gc)
U2-OIL-RUN1	14:38	15:38	47.63	12.55	770.1	764.1	0.0157	87.0	303.7	33.65	0.1308	1782.2	233.14	255.83
U2-OIL-RUN2	15:47	16:47	47.54	12.55	770.1	764.1	0.0140	87.0	303.7	33.59	0.1308	1837.7	239.94	264.92
U2-OIL-RUN3	16:56	17:56	47.46	12.63	770.1	764.1	0.0151	82.0	300.9	33.86	0.1316	1873.3	246.54	271.25
Average			47.54	12.58						33.70	0.1310	1831.0	239.87	260.67

CO Emissions

Run Number	Start Time	End Time	CO (ppmdv)	O_2 (%dv)	Combustor Inlet Pressure (mm Hg) Obs.	Ref.	Ambient Humidity (g H_2O/g air)	Ambient Temperature (F)	(K)	CO Concentration (ppmdv @ 15% O_2)	(lb/MMBtu)[1]	CO Mass Emissions (MMBtu/hr)	(lb/hr)	(lb/hr, gc)
U2-OIL-RUN1	14:38	15:38	0.33	12.55	770.1	764.1	0.0157	87.0	303.7	0.23	0.0006	1782.2	0.98	1.08
U2-OIL-RUN2	15:47	16:47	0.38	12.55	770.1	764.1	0.0140	87.0	303.7	0.27	0.0006	1837.7	1.17	1.24
U2-OIL-RUN3	16:56	17:56	0.41	12.63	770.1	764.1	0.0151	82.0	300.9	0.29	0.0007	1873.3	1.30	1.43
Average			0.37	12.58						0.28	0.0006	1831.0	1.15	1.25

Visible Emissions

Run Number	U2-M9-R4	U2-M9-R5	U2-M9-R6	
Start Time	14:38	15:38	16:38	
End Time	15:38	16:38	17:38	Average
Opacity (%)	0.0	0.0	0.0	0.0

[1] Calculated using conversion factors (ppm => lb/scf) found in Appendix F, and a fuel factor (Fd: dry, oxygen-based) of 8710 dscf/MMBtu for natural gas and 9190 dscf/MMBtu for fuel oil.

Table 4 - Summary of NO_x, CO, and Visible Emissions at Vandolah Power Company: Unit 3 (May 21, 2003)

NATURAL GAS

NO_x Emissions

Run Number	Start Time	End Time	NOx (ppmdv)	O_2 (%dv)	Combustor Inlet Pressure (mm Hg) Obs.	Ref.	Ambient Humidity (g H_2O/g air)	Ambient Temperature (F)	(K)	NOx Concentration (ppmdv @ 15% O_2)	(lb/MMBtu)[1]	NOx Mass Emissions (MMBtu/hr)	(lb/hr)	(lb/hr, $_{adj}$)
U3-GAS-RUN1	08:43	09:51	7.97	13.55	790.0	781.7	0.0166	83.0	301.5	6.39	0.0236	1642.4	38.68	43.61
U3-GAS-RUN2	10:01	11:10	7.90	13.41	790.0	781.7	0.0206	90.0	305.4	6.22	0.0229	1645.0	37.71	44.98
U3-GAS-RUN3	11:19	12:27	7.98	13.42	790.0	781.7	0.0186	90.0	305.4	6.29	0.0232	1636.1	37.89	43.51
Average			7.95	13.46						6.30	0.0232	1641.2	38.09	44.03

CO Emissions

Run Number	Start Time	End Time	CO (ppmdv)	O_2 (%dv)	Combustor Inlet Pressure (mm Hg) Obs.	Ref.	Ambient Humidity (g H_2O/g air)	Ambient Temperature (F)	(K)	CO Concentration (ppmdv @ 15% O_2)	(lb/MMBtu)[1]	CO Mass Emissions (MMBtu/hr)	(lb/hr)	(lb/hr, $_{adj}$)
U3-GAS-RUN1	08:43	09:51	0.69	13.55	790.0	781.7	0.0166	83.0	301.5	0.55	0.0012	1642.4	2.04	2.30
U3-GAS-RUN2	10:01	11:10	0.42	13.41	790.0	781.7	0.0206	90.0	305.4	0.33	0.0007	1645.0	1.22	1.46
U3-GAS-RUN3	11:19	12:27	0.37	13.42	790.0	781.7	0.0186	90.0	305.4	0.29	0.0007	1636.1	1.07	1.23
Average			0.49	13.46						0.39	0.0009	1641.2	1.44	1.66

Visible Emissions

Run Number	U3-M9-R1	U3-M9-R2	U3-M9-R3	
Start Time	8:43	9:43	10:43	
End Time	9:43	10:43	11:43	Average
Opacity (%)	0.0	0.0	0.0	0.0

FUEL OIL

NO_x Emissions

Run Number	Start Time	End Time	NOx (ppmdv)	O_2 (%dv)	Combustor Inlet Pressure (mm Hg) Obs.	Ref.	Ambient Humidity (g H_2O/g air)	Ambient Temperature (F)	(K)	NOx Concentration (ppmdv @ 15% O_2)	(lb/MMBtu)[1]	NOx Mass Emissions (MMBtu/hr)	(lb/hr)	(lb/hr, $_{adj}$)
U3-OIL-RUN1	14:37	15:37	50.06	12.27	787.9	781.7	0.0159	86.0	303.2	34.24	0.1331	1749.7	232.85	257.18
U3-OIL-RUN2	15:46	16:46	49.80	12.23	787.9	781.7	0.0157	87.0	303.7	33.89	0.1317	1801.8	237.35	260.42
U3-OIL-RUN3	16:56	17:56	49.36	12.24	787.9	781.7	0.0153	85.0	302.6	33.63	0.1307	1848.4	241.81	264.58
Average			49.75	12.25						33.92	0.1318	1800.0	237.27	260.73

CO Emissions

Run Number	Start Time	End Time	CO (ppmdv)	O_2 (%dv)	Combustor Inlet Pressure (mm Hg) Obs.	Ref.	Ambient Humidity (g H_2O/g air)	Ambient Temperature (F)	(K)	CO Concentration (ppmdv @ 15% O_2)	(lb/MMBtu)[1]	CO Mass Emissions (MMBtu/hr)	(lb/hr)	(lb/hr, $_{adj}$)
U3-OIL-RUN1	14:37	15:37	0.18	12.27	787.9	781.7	0.0159	86.0	303.2	0.12	0.0003	1749.7	0.51	0.56
U3-OIL-RUN2	15:46	16:46	0.20	12.23	787.9	781.7	0.0157	87.0	303.7	0.14	0.0003	1801.8	0.58	0.64
U3-OIL-RUN3	16:56	17:56	0.44	12.24	787.9	781.7	0.0153	85.0	302.6	0.30	0.0007	1848.4	1.31	1.44
Average			0.27	12.25						0.19	0.0004	1800.0	0.80	0.88

Visible Emissions

Run Number	U3-M9-R4	U3-M9-R5	U3-M9-R6	
Start Time	14:37	15:37	16:37	
End Time	15:37	16:37	17:37	Average
Opacity (%)	0.0	0.0	0.0	0.0

[1] Calculated using conversion factors (ppm => lb/scf) found in Appendix F, and a fuel factor (Fd: dry, oxygen-based) of 8710 dscf/MMBtu for natural gas and 9190 dscf/MMBtu for fuel oil.

Table 5 - Summary of NO_X, CO, and Visible Emissions at Vandolah Power Company: Unit 4 (May 22, 2003)

NATURAL GAS

NO_X Emissions

Run Number	Start Time	End Time	NOx (ppmdv)	O_2 (%dv)	Combustor Inlet Pressure (mm Hg) Obs.	Rel.	Ambient Humidity (g H_2O/g air)	Ambient Temperature (F)	(K)	NOx Concentration (ppmdv @ 15% O_2)	(lb/MMBtu)[1]	NOx Mass Emissions (MMBtu/hr)	(lb/hr)	(lb/hr, iso)
U4-GAS-RUN1	08:48	09:56	8.01	12.83	772.9	765.6	0.0154	81.0	300.4	5.85	0.0215	1651.8	35.58	39.46
U4-GAS-RUN2	10:04	11:14	8.41	12.76	772.9	765.6	0.0184	87.0	303.7	6.09	0.0224	1647.4	36.97	42.67
U4GAS-RUN3	11:22	12:30	8.93	12.76	772.9	765.6	0.0196	90.0	305.4	6.47	0.0238	1646.9	39.25	45.96
Average			8.45	12.78						6.14	0.0226	1648.7	37.27	42.70

CO Emissions

Run Number	Start Time	End Time	CO (ppmdv)	O_2 (%dv)	Combustor Inlet Pressure (mm Hg) Obs.	Rel.	Ambient Humidity (g H_2O/g air)	Ambient Temperature (F)	(K)	CO Concentration (ppmdv @ 15% O_2)	(lb/MMBtu)[1]	CO Mass Emissions (MMBtu/hr)	(lb/hr)	(lb/hr, iso)
U4-GAS-RUN1	08:48	09:56	0.34	12.83	772.9	765.6	0.0154	81.0	300.4	0.25	0.0006	1651.8	0.92	1.02
U4-GAS-RUN2	10:04	11:14	0.30	12.76	772.9	765.6	0.0184	87.0	303.7	0.21	0.0005	1647.4	0.79	0.91
U4GAS-RUN3	11:22	12:30	0.25	12.76	772.9	765.6	0.0196	90.0	305.4	0.18	0.0004	1646.9	0.66	0.77
Average			0.29	12.78						0.21	0.0006	1648.7	0.79	0.90

Visible Emissions

Run Number		U4-M9-R1		U4-M9-R2		U4-M9-R3		
Start Time		8:48		9:48		10:48		
End Time		9:48		10:48		11:48	Average	
Opacity (%)		0.0		0.0		0.0	0.0	

FUEL OIL

NO_X Emissions

Run Number	Start Time	End Time	NOx (ppmdv)	O_2 (%dv)	Combustor Inlet Pressure (mm Hg) Obs.	Rel.	Ambient Humidity (g H_2O/g air)	Ambient Temperature (F)	(K)	NOx Concentration (ppmdv @ 15% O_2)	(lb/MMBtu)[1]	NOx Mass Emissions (MMBtu/hr)	(lb/hr)	(lb/hr, iso)
U4-OIL-RUN1	15:20	16:20	51.76	12.27	770.3	765.6	0.0202	96.0	308.7	35.39	0.1375	1600.0	220.07	256.77
U4-OIL-RUN2	16:28	17:28	51.45	12.40	770.3	765.6	0.0182	80.0	299.8	35.71	0.1388	1600.0	222.10	260.88
U4-OIL-RUN3	19:15	20:15	50.91	12.37	770.3	765.6	0.0169	82.0	300.9	35.21	0.1369	1600.0	219.00	249.54
Average			51.37	12.35						35.44	0.1377	1600.0	220.39	256.73

CO Emissions

Run Number	Start Time	End Time	CO (ppmdv)	O_2 (%dv)	Combustor Inlet Pressure (mm Hg) Obs.	Rel.	Ambient Humidity (g H_2O/g air)	Ambient Temperature (F)	(K)	CO Concentration (ppmdv @ 15% O_2)	(lb/MMBtu)[1]	CO Mass Emissions (MMBtu/hr)	(lb/hr)	(lb/hr, iso)
U4-OIL-RUN1	15:20	16:20	0.17	12.27	770.3	765.6	0.0202	96.0	308.7	0.12	0.0003	1600.0	0.44	0.51
U4-OIL-RUN2	16:28	17:28	0.24	12.40	770.3	765.6	0.0182	80.0	299.8	0.17	0.0004	1600.0	0.63	0.74
U4-OIL-RUN3	19:15	20:15	0.38	12.37	770.3	765.6	0.0169	82.0	300.9	0.26	0.0006	1600.0	1.00	1.13
Average			0.26	12.35						0.18	0.0004	1600.0	0.69	0.80

Visible Emissions

Run Number		U4-M9-R4		U4-M9-R5		U4-M9-R6		
Start Time		15:20		16:20		17:20		
End Time		16:20		17:20		19:52	Average	
Opacity (%)		0.0		0.0		0.0	0.0	

[1] Calculated using conversion factors (ppm => lb/scf) found in Appendix F, and a fuel factor (Fd: dry, oxygen-based) of 8710 dscf/MMBtu for natural gas and 9190 dscf/MMBtu for fuel oil.

GE Energy

Todd Gregg
Project Manager

GASEOUS EMISSIONS AND VISIBLE EMISSIONS COMPLIANCE TEST

Performed At
Vandolah Power Plant
Unit 1 Stack, Unit 2 Stack, Unit 3 Stack and Unit 4 Stack
Wauchula, Florida

Test Dates
June 7 through 10, 2004

Report No.
GE Energy Management Services, Inc. Report M22K0044B Rev. 1

Report Submittal Date
August 6, 2004

GE Energy Management Services, Inc
10301 Cogdill Road, Suite 310
Knoxville, Tennessee 37932
USA

T 865-966-9199
F 865-966-9190

GE Energy

Natural Gas

Parameter		Unit 1	Unit 2	Unit 3	Unit 4
CO	ppmvd	0.21	0.38	0.09	0.05
	at 15% O_2	0.18	0.31	0.08	0.04
	lbs/mmBtu	0.0004	0.0007	0.0002	0.0001
	lbs/hr	0.65	1.14	0.28	0.16
NO_x	ppmvd	7.92	7.17	8.23	8.82
	at 15% O_2	6.56	5.99	6.96	7.31
	lbs/mmBtu	0.024	0.022	0.025	0.027
	lbs/hr	39.90	35.99	42.35	43.64
O_2, % (dry)		13.78	13.84	13.92	13.82
VE		0.0	0.0	0.0	0.0

Fuel Oil

Parameter		Unit 1	Unit 2	Unit 3	Unit 4
CO	ppmvd	0.94	0.65	0.64	0.72
	at 15% O_2	0.67	0.47	0.46	0.50
	lbs/mmBtu	0.0016	0.0011	0.0011	0.0012
	lbs/hr	2.97	2.10	2.13	2.31
NO_x	ppmvd	46.45	49.76	52.56	42.24
	at 15% O_2	33.03	35.83	38.15	29.47
	lbs/mmBtu	0.128	0.139	0.148	0.114
	lbs/hr	243.28	266.26	287.44	219.91
O_2, % (dry)		12.60	12.71	12.77	12.44
VE		3.1	1.7	2.8	1.7

Complete test results can be found in Section 6.0.

2004

GE Energy

Todd Gregg
Project Manager

ISO 9001 Accredited
Quality System

GASEOUS EMISSIONS AND VISIBLE EMISSIONS COMPLIANCE TEST

Performed At
Vandolah Power Plant
Unit 1 Stack, Unit 2 Stack, Unit 3 Stack and Unit 4 Stack
Wauchula, Florida

Test Dates
June 6 through 9, 2005

Report No.
GE Energy Management Services, Inc. Report M22K0088B Rev. 1

Report Submittal Date
August 16, 2005

GE Energy Management Services, Inc
10301 Cogdill Road, Suite 310
Knoxville, Tennessee 37932
USA

T 865-966-9199
F 865-966-9190

Natural Gas

Parameter		Unit 1	Unit 2	Unit 3	Unit 4
CO	ppmvd	0.69	0.58	0.76	0.82
	at 15% O_2	0.54	0.48	0.63	0.67
	lbs/mmBtu	0.001	0.001	0.001	0.001
	lbs/hr	1.64	1.64	2.21	2.19
NO_x	ppmvd	7.85	6.94	8.34	8.36
	at 15% O_2	6.14	5.72	6.87	6.84
	lbs/mmBtu	0.022	0.021	0.025	0.025
	lbs/hr	36.66	34.40	42.03	41.63
Heat Input, mmBtu/hr		1641.5	1638.5	1658.7	1643.0
O_2, % (dry)		13.36	13.75	13.74	13.68

Fuel Oil

Parameter		Unit 1	Unit 2	Unit 3	Unit 4
CO	ppmvd	0.79	0.92	0.86	0.99
	at 15% O_2	0.56	0.66	0.61	0.69
	lbs/mmBtu	0.001	0.002	0.001	0.002
	lbs/hr	2.28	2.84	2.30	3.38
NO_x	ppmvd	51.64	50.21	51.17	48.38
	at 15% O_2	36.73	36.24	36.42	33.92
	lbs/mmBtu	0.143	0.141	0.141	0.132
	lbs/hr	244.03	239.52	243.43	222.33
O_2, % (dry)		12.60	12.72	12.61	12.48
Heat Input, mmBtu/hr		171.05	1702.8	1722.3	1688.7
VE		0.6	0.5	0.4	0.4

Complete test results can be found in Section 6.0.

GE Energy

Michael O. White
Project Manager

ISO 9001 Accredited
Quality System

GASEOUS EMISSIONS AND VISIBLE EMISSIONS COMPLIANCE TEST

Performed At
Vandolah Power Plant
Unit 1 Stack, Unit 2 Stack, Unit 3 Stack and Unit 4 Stack
Wauchula, Florida

Test Dates
June 5 through 9, 2006

Report No.
GE Energy Management Services, Inc. Report M22M0289B

Report Submittal Date
July 18, 2006

GE Energy Management Services, Inc
1001 Aviation Parkway
Morrisville, North Carolina 27560
USA

T 919-460-1060
F 919-460-1944

GE Energy

Natural Gas

Parameter		Allowable	Unit 1	Unit 2	Unit 3	Unit 4
CO	ppmvd	–	0.17	0.32	0.32	1.76
	at 15% O_2	12	0.13	0.26	0.26	1.41
	lbs/mmBtu	–	0.0003	0.0006	0.0006	0.0032
	lbs/hr	42.5	0.50	0.96	0.96	5.3
NO_x	ppmvd	9	7.8	6.7	7.5	7.8
	at 15% O_2	9	6.1	5.5	6.1	6.2
	lbs/mmBtu	–	0.023	0.020	0.022	0.023
	lbs/hr -iso	64.1	37.6	33.2	36.8	38.6
Heat Input, mmBtu/hr		–	1656.7	1663.0	1671.3	1678.9
O_2, % (dry)		–	13.4	13.7	13.6	13.5

Fuel Oil

Parameter		Allowable	Unit 1	Unit 2	Unit 3	Unit 4
CO	ppmvd	–	0.83	0.61	0.51	0.47
	at 15% O_2	20	0.57	0.43	0.36	0.33
	lbs/mmBtu	–	0.001	0.001	0.00	0.001
	lbs/hr	71.4	1.75	1.74	1.71	1.75
NO_x	ppmvd	–	48.5	46.8	47.1	49.0
	at 15% O_2	42	33.7	33.0	32.9	34.2
	lbs/mmBtu	–	0.131	0.128	0.128	0.133
	lbs/hr	351	228.7	222.8	218.9	233.1
Heat Input, mmBtu/hr		–	1746.1	1736.2	1714.8	1752.6
O_2, % (dry)		–	12.4	12.5	12.5	12.5
Opacity, %		10	0	0	0	0

Complete test results can be found in Section 6.0.

GE Energy

Michael O. White
Project Manager

ISO 9001 Accredited
Quality System

GASEOUS EMISSIONS AND VISIBLE EMISSIONS COMPLIANCE TEST

Performed At
Vandolah Power Plant
Unit 1 Stack, Unit 2 Stack, Unit 3 Stack and Unit 4 Stack
Wauchula, Florida

Test Dates
June 4 through 7, 2007

Report No.
GE Energy Management Services, Inc. Report M22M0366B

Report Submittal Date
July 12, 2007

GE Energy Management Services, Inc
1001 Aviation Parkway
Morrisville, North Carolina 27560
USA

T 919-460-1060
F 919-460-1944

GE Energy

Natural Gas

Parameter		Allowable	Unit 1	Unit 2	Unit 3	Unit 4
CO	ppmvd	–	0.6	0.6	0.6	0.7
	at 15% O_2	12	0.5	0.5	0.5	0.5
	lbs/mmBtu	–	0.001	0.001	0.0011	0.0012
	lbs/hr	42.5	1.7	1.6	1.8	2.0
NO_x	ppmvd	–	8.8	9.7	9.1	8.4
	at 15% O_2	9	7.1	7.9	7.4	6.7
	lbs/mmBtu	–	0.026	0.029	0.0273	0.0243
	lbs/hr -iso	64.1	44.3	48.1	45.2	40.3
Heat Input, mmBtu/hr		–	1704.8	1640.0	1654.2	1656.8
O_2, % (dry)		–	13.6	13.6	13.7	13.5

Fuel Oil

Parameter		Allowable	Unit 1	Unit 2	Unit 3	Unit 4
CO	ppmvd	–	0.9	1.0	0.9	0.5
	at 15% O_2	20	0.6	0.7	0.6	0.3
	lbs/mmBtu	–	0.0015	0.002	0.0014	0.0008
	lbs/hr	71.4	2.6	3.4	2.3	1.4
NO_x	ppmvd	–	54.6	50.5	55.0	43.6
	at 15% O_2	42	39.1	35.9	39.2	30.1
	lbs/mmBtu	–	0.152	0.139	0.153	0.117
	lbs/hr	351	259.7	237.3	252.4	203.2
Heat Input, mmBtu/hr		–	1705.0	1703.4	1653.2	1736.8
O_2, % (dry)		–	12.7	12.6	12.6	12.4
Opacity, %		10	0	0	0	0

Complete test results can be found in Section 6.0.

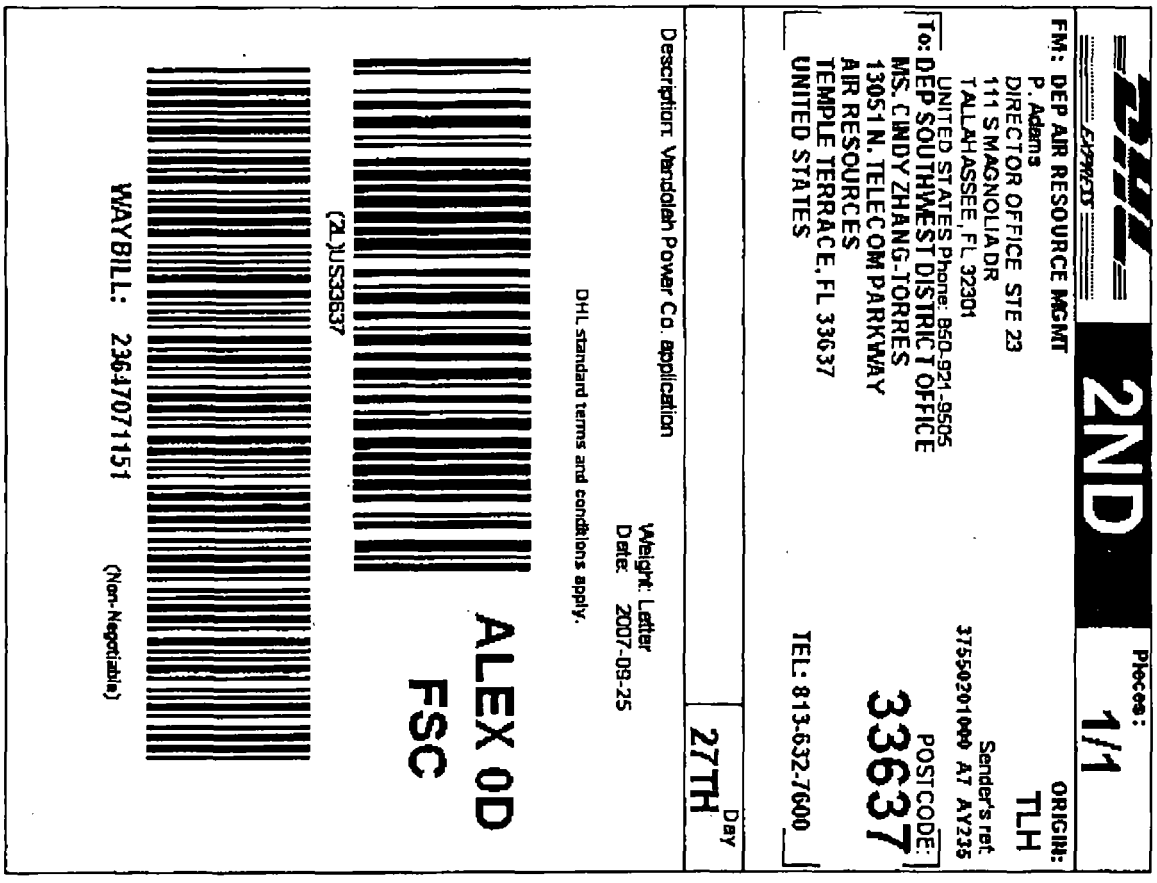
ATTACHMENT B

ATTACHMENT B

VANDOLAH RUN HOURS ON DIESEL FUEL AND PIPELINE NATURAL GAS

Year	Vandolah Unit 1 Hours on Oil	Vandolah Unit 2 Hours on Oil	Vandolah Unit 3 Hours on Oil	Vandolah Unit 4 Hours on Oil
2002	113	101	98	117
2003	106	89	58	89
2004	84	80	72	44
2005	102	148	81	143
2006	10	16	6	14
2007 Jan 1- Sept 9	5	24	22	5
TOTALS	420	458	337	412

Year	Vandolah Unit 1 Hours on Gas	Vandolah Unit 2 Hours on Gas	Vandolah Unit 3 Hours on Gas	Vandolah Unit 4 Hours on Gas
2002	204	234	193	182
2003	333	355	223	290
2004	239	214	161	126
2005	539	397	305	213
2006	453	193	163	124
2007 Jan 1- Sept 9	470	250	213	197
TOTALS	2238	1643	1258	1132



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