

Jeb Bush
Governor

Department of Environmental Protection

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

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AUG 12 2005

DIVISION OF AIR
RESOURCE MANAGEMENT

Colleen M. Castille
Secretary

08/11/05

- CERTIFIED MAIL - RETURN RECEIPT REQUESTED -

Ms. Yolanta E. Jonynas
Gainesville Regional Utilities
Post Office Box 147117
Station A136
Gainesville, Florida 32614-7117

**RE: Deerhaven Generating Station
Modification to Conditions of Certification
DEP Case Number PA 74-04G
OGC Case Number 05-1496**

FINAL ORDER MODIFYING CONDITIONS OF CERTIFICATION

Dear Ms. Jonynas:

On December 28, 2004, the Department of Environmental Protection (DEP) issued a final Title -V permit revision (0010006-003-AV) for **Deerhaven Generating Station** (Deerhaven). Review of the Conditions of Certification for Deerhaven indicated that a modification would be necessary.

On or before July 1, 2005 all parties to the certification proceeding were provided with notice by certified mail of the Department's intent to modify the Conditions of Certification for this facility, along with a copy of the proposed Order Modifying Conditions of Certification. Additionally, on July 1, 2005, notice of the Department's intent to modify the Conditions of Certification for this facility was published on the Department's internet home page at <http://www.dep.state.fl.us/> under the link or button titled "Official Notices." Those notices specified that pursuant to Section 403.516, Florida Statutes ("F.S."), and Rule 62-17.211, Florida Administrative Code ("F.A.C."), all parties to the certification proceeding have 45 days from the issuance of notice by mail to such party's last address of record in which to file a written objection to the modification; that any person who is not already a party to the certification proceeding and whose substantial interests will be affected by the requested modification has 30 days from the date of publication of the public notice on the Department's internet home page to

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August 11, 2005

object in writing; that failure to act within the time frame constitutes a waiver of the right to become a party; and that the Department will issue an Order Modifying the Conditions of Certification for this facility if no written objections are received by the Department.

No objections to the modification have been received by the Department. The Conditions of Certification for Deerhaven are hereby modified as follows:

All reference to 'permittee' is changed to 'licensee'

All reference to DER is changed to DEP

All reference to Chapter 17 is changed to Chapter 62

All reference to the Department of Environmental Regulation will be changed to Department of Environmental Protection

All reference to 40 CFR 60 and/or 40 CFR 60 Subpart GG will be changed from (1993 version) to (1993 or most current version)

GENERAL

2. Non-Compliance Notification

If, for any reason, the ~~permittee~~ licensee does not comply with or may be unable to comply with any limitation specified in this certification, the ~~permittee~~ licensee shall notify the ~~Lower St. Johns River Subdistrict Manager of the Department's Northeast District Office~~ by telephone, fax or E-mail during the same day, if a workday (i.e. 8:00am - 5:00pm, or the first business day after the incident, excluding weekend and holidays, at 352-333-2850 during the working day that said noncompliance occurs and shall confirm this in writing, if requested by the Department, within seventy-two (72) hours of becoming aware of such conditions, and shall supply the following information:

SPECIAL

I. Air

The operation of the Gainesville Regional Utilities Deerhaven Generating Station Unit No. 2 shall be in accordance with all applicable provisions of Title V Air Operation Permit 0010006-0043-AV and of any updates or modifications thereto, and of Chapters 62-210 through 62-297, F.A.C. In addition to the foregoing, the Licensee shall comply with the following conditions of certification as indicated.

A-G. No change

H. Deerhaven Combustion Turbine No. 3

The construction and operation of the Gainesville Regional Utilities (GRU) Deerhaven Combustion Turbine #3 (DHCT3) shall be in accordance with all applicable provisions of Chapters 62-210 through 297 and 62-4, Florida Administrative Code (F.A.C.), and 40 CFR 60, Subpart A, Subpart GG, Appendix A and Appendix B (1993 or most current version). The following emission limitations and conditions reflect the BACT determinations for the DHCT3. In addition to the foregoing, the project shall comply with Air Construction Permit No.: 00100006-004-AC/PSD-FL-212(A) and the following conditions of certification:

1. General Operating Requirements

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a. The maximum heat input rates, based on high heating values of each fuel, to the DHCT3 and at ISO conditions (i.e., 59° F, 60% relative humidity and 101.3 kilopascals pressure), shall not exceed 971.1 MMBTU/hr, while firing natural gas, nor 990.6 MMBTU/hr, while firing fuel oil. Heat input will vary depending on ambient conditions and the DHCT3 characteristics. Manufacturer's curves or equations for correction to other ambient conditions shall be provided to the Department of Environmental Regulation Protection (DEP) at least 90 days before initial compliance testing.

b. The DHCT3 is allowed to operate up to 3900 hours per year, but not to exceed 2000 hours while firing fuel oil.

c. Only natural gas (NG) and/or No. 2 fuel oils (Nos. 1 or 2) shall be fired in the combustion turbine. The maximum sulfur content of the fuel oil shall not exceed 0.05 percent, by weight. GRU has established that there is approximately 55 hours of full load operation of fuel oil, which contains nominally 0.25% sulfur content, by weight, remaining in the fuel storage tank. GRU will be allowed to deplete this reserve by firing the fuel oil in the DHCT3. However, all future deliveries of fuel oil for the DHCT3 shall meet the BACT requirement, which limits the fuel oil sulfur content to no more than 0.05%, by weight. Fuel sulfur content shall be determined and recorded each time fuel is transferred into the bulk storage tank(s).

d. During the construction period, unconfined particulate matter emissions shall be minimized by dust suppressing techniques, such as covering and/or application of water or chemicals to the affected areas pursuant to Rule 62-296.310(3), F.A.C. - Unconfined Emissions of Particulate Matter.

e. Any change in the method of operation, equipment or operating hours, pursuant to Rule 62-210.200, F.A.C., Definitions - Modifications, shall be submitted to the DEP's Bureau of Air Regulation office and Northeast District office.

2. Emission Limits

a. The maximum allowable emissions from the DHCT3, when firing natural gas or No. 2 or distillate fuel oils (Nos. 1 or 2), in accordance with the BACT determination, and at 95 - 100% percent load based on the manufacturer's curves submitted to the DEP, shall not exceed the following limits except during periods of start up, shutdown, load changing, fuel switching and malfunction pursuant to Rule 62-210.700, F.A.C. and the BACT analysis (including the amended BACT):

MAXIMUM ALLOWABLE EMISSION LIMITS				
POLLUTANT	FUEL	BACT STANDARD	LBS/HR-	*TPY
NO _x	Gas	15 ppmvd @ 15% Oxygen(a)	58	113(a)
	Oil	42 ppmvd @ 15% Oxygen(a)	484	484(b)
			combined(c)	239
PM ₁₀	Gas	Good combustion; visible emissions shall not exceed 10% opacity (b)	7(d)	44(a)(d)
	Oil	Good combustion of low sulfur oil; max.0.05% sulfur, by weight; visible emissions shall not exceed 10% opacity (b)	15(d)	45(b)(d)
		Good combustion of low sulfur oil; max.0.05% sulfur, by weight; visible emissions shall not exceed 10% opacity (b)		
SO ₂	Gas	Good combustion (b)	29(d)	57(a)(d)

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	Oil	Good combustion of low sulfur fuel oil: max. 0.05% sulfur content, by weight (b)	53(d)	53(b)(d)
	Oil	Good combustion, limited quantity: max. 0.25% sulfur content, by weight	combined (c)	84
H ₂ SO ₄ Mist	Gas	Good combustion (b)	3(d)	6(a)(d)
	Oil	Good combustion of low sulfur fuel oil: max. 0.05% sulfur content, by weight (b)	6(d)	6(b)(d)
	Oil	Good combustion, limited quantity: max. 0.25% sulfur content, by weight	combined (c)	9

* These values are calculated using F-factors.

(a) Based on a maximum of 3900 hours of operation with natural gas firing.

(b) based on a maximum of 2000 hours of operation with fuel oil firing.

(c) Based on 1900 hours natural gas firing and 2000 hours fuel oil firing.

(d) Compliance shall be demonstrated through fuel sulfur analysis.

(a) The averaging time shall be based on the test method.

(b) Compliance shall be demonstrated through combustion of pipeline natural gas and fuel oil sulfur analysis. [PA 74-04; PSD-FL-212; BACT; BACT, as amended; and 0010006-004-AC and PSD-FL-212(A)]

b. ~~Visible emissions shall not exceed 10% opacity when firing natural gas or No. 2 fuel oil.~~

c. The potential emissions projected from the DHCT3 are:

ESTIMATED POTENTIAL EMISSIONS		
Pollutant	Method of Control	TPY **
CO	Good combustion, proper use of water injection system	95.2
VOC	Good combustion	8.7
Mercury	Natural Gas/No. 2 Fuel Oil	0.001
Pb	Natural Gas/No. 2 Fuel Oil	0.0638
Be	Natural Gas/No. 2 Fuel Oil	0.00033

** TPY values are for annual operation reports (AOR) and PSD applicability determinations. These values are based on the DHCT3 operating at full load at ISO for a total of 3900 hours per year, with up to 2000 hours of No. 2 fuel oil-fired operation.

3. Compliance Determination

a. ~~Compliance with the allowable emission limiting standards shall be determined within 60 days after achieving the maximum production rate at which this unit will be operated, but not later than 180 days of initial operation at the maximum capability of the unit and annually thereafter, by using the following reference methods as described in 40 CFR 60, Appendix A (1993 or most current version), and adopted by reference in Chapter 62-297, F.A.C.~~

~~Initial (I) compliance tests shall be performed on the DHCT3 while firing each fuel (gas, oil). Annual (A) compliance tests shall be performed during every federal fiscal year (October 1 - September 30) pursuant to Rule 62-297.310, F.A.C., on the DHCT3 with the fuel(s) used for more than 400 hours in the preceding 12-month period.~~

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- ~~-Method 9 — Visual Determination of the Opacity of Emissions from Stationary Sources (I,A)~~
- ~~-Method 10 — Determination of Carbon Monoxide Emissions from Stationary Sources (I)~~
- ~~-Method 20 — Determination of Nitrogen Oxides and Diluent Emissions from Stationary Gas Turbines (I,A)~~

~~Note: No other methods may be used for compliance testing unless prior DEP approval is received in writing. The DEP may request a special compliance test pursuant to Rule 62-297.310(7)(b), F.A.C., when, after investigation (such as complaints, increased visible emissions, or questionable maintenance of control equipment), there is reason to believe that any applicable emission standard is being violated.~~

The NOx CEMS shall be used for continuous compliance.
[PSD-FL-212 and PA 74-04; 0010006-004-AC/PSD-FL-212(A)]

b. Notwithstanding the requirements of Rule 62-297.310, F.A.C., the exclusive use of fuel oil with a maximum sulfur content limit of 0.05% or less, by weight, is the method for determining compliance for SO₂, H₂SO₄ mist, and PM₁₀. There is no suitable method for the testing of PM₁₀ from this type of emissions unit, and the SO₂ and H₂SO₄ emissions are clearly limited by the sulfur content of the fuel. Compliance with the SO₂ and sulfuric acid mist emission limits shall be determined by fuel oil analysis using ASTM D2880-71 or D4294 (or equivalent) for the sulfur content of liquid fuels and D1072-80, D3031-81, D4084-82 or D3246-81 (or equivalent) for sulfur content of gaseous fuel. Alternatively, natural gas supplier data for sulfur content may be submitted. However, the applicant is responsible for ensuring that the procedures above are used for determination of fuel sulfur content. Analysis may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency pursuant to 40 CFR 60.335(e) (1993 or most current version).

c. Pursuant to Rule 62-212.400, F.A.C., the permittee licensee shall install a dry low-NOx combustor on the DHCT3 for NOx control when firing natural gas. Control of NOx when firing No. 2 fuel oil shall be accomplished by water injection.

d. An initial test for CO, concurrent with each NOx test, is required to confirm that annual potential emissions will not exceed 100 TPY. The NOx and initial CO test results shall be the average of three valid one-hour runs. The DEP's Northeast District office shall be notified, in writing, at least 30 days prior to the initial compliance tests and at least 15 days before annual compliance test(s). The combustion turbine shall operate between 95% and 100% of maximum capacity for the ambient conditions experienced during compliance test(s). The turbine manufacturer's heat input rates (based on the high heating value of the fuel) vs. ambient temperature curve shall be included with the compliance test results. The fuel feed rates and the high heating value of the fuels shall be established during the initial and annual compliance tests. Compliance test results shall be submitted to the DEP's Northeast District office no later than 45 days after completion of the last test run.

e. Excess NO_x emissions from this turbine resulting from startup, shutdown, malfunction, fuel switching or load change, shall be acceptable providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the DEP's Bureau of Air Regulation or the Northeast District office for a longer duration. Best operating practices shall be documented in writing and a copy submitted to the DEP's Northeast District office along with the initial compliance test data. The document may be updated as needed with all updates submitted to the DEP's Northeast District office within thirty (30) days of implementation and shall include time limitations on excess emissions caused by turbine startup.

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4. Notification, Reporting and Recordkeeping

Notification and recordkeeping shall be in accordance with 40 CFR 60.7 (1993 or most current version). The following protocols shall be submitted to the DEP's Northeast District office for approval:

a. CEMS - If applicable, the Federal Acid Rain Program requirements of 40 CFR 75 shall apply when those requirements become effective in Florida.

b. Performance Test Protocol - At least 30 days prior to conducting the initial performance tests required by this permit, the permittee licensee shall submit to the DEP's Northeast District office for their review and approval: a protocol outlining the procedures to be followed; the test methods; and, any differences between the reference methods and the test methods proposed to be used to verify compliance with the conditions of this permit.

c. All measurements, records, and other data required to be maintained by GRU shall be retained for at least five (5) years following the date on which such measurements, records, or data are recorded. These data shall be made available to the DEP representatives.

5. Monitoring Requirements

a. The permittee licensee shall install, calibrate, maintain, and operate a continuous emission monitor in the stack to measure and record the nitrogen oxides emissions from this source. ~~One hour periods when~~ An hour of excess emissions shall be any unit operating hour in which the 4-hour rolling average NOx emissions (ppmvd @ 15% oxygen) are above the BACT standards (15/42 gas/oil) shall be reported as excess emissions following the format of 40 CFR 60.7 (1993 or most current version). The continuous emission monitor must comply with Rule 62-297.520, F.A.C.; 40 CFR 60, Appendix F, Quality Assurance Procedures (1993 or most current version) (or other DEP approved QA plan); 40 CFR 60, Appendix B, Performance Specification 2 (1993 or most current version); or, if applicable, 40 CFR 75, Appendix A and Appendix B. Periods of startup, shutdown, fuel switching, malfunction, and load change shall be monitored and recorded. The NOx CEMS will be used in lieu of the water/fuel monitoring system and fuel bound nitrogen (FBN) monitoring, which are required in accordance with 40 CFR 60, Subpart GG (1993 or most current version), and are used as indicators of compliance with the NOx standard specified in the subpart. Since the NOx emission standard from Subpart GG is more than twice the BACT standard, monitoring for emissions in excess of the BACT limits using the NOx CEMS is more stringent. FBN levels are not required for excess emission reports when excess emissions are reported and based on the stack monitoring system. The calibration of the water/fuel monitoring device required in 40 CFR 60.335(c)(2) (1993 or most current version) will be replaced by certification tests of the NOx CEMS.

b. A malfunction means any sudden and unavoidable failure of air pollution control equipment or process equipment to operate in a normal or usual manner. Failures that are caused entirely or in part by poor maintenance, careless operation, or any other preventable upset condition or preventable equipment breakdown shall not be considered malfunctions and shall be prohibited pursuant to Rule 62-210.700, F.A.C.

c. The sulfur content of the fuel oil being fired in the combustion turbine shall be determined in accordance with 40 CFR 60.334(b) (1993 or most current version). Any request for a future custom monitoring schedule shall be made in writing and directed to the DEP's Bureau of Air Regulation office. Any custom schedule approved by the DEP pursuant to 40 CFR 60.334(b) (1993 or most current version) will be recognized as enforceable provisions of the permit, provided that the holder

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of this permit demonstrates that the provisions of the schedule will be adequate to assure continuous compliance. The records of natural gas and No. 2 fuel oil usage shall be kept by the company for a five-year period for regulatory agency inspection purposes.

6. Rule Requirements

a. The emission unit shall be in compliance with all applicable provisions of Chapter 403, Florida Statutes, and Chapters 62-4, 204, 210, 212, 296 and 297, F.A.C.

b. The emission unit shall be in compliance with all applicable requirements of 40 CFR 60, Subpart A, Appendix A and Appendix B (1993 or most current version), Subpart GG - Standards of Performance for Stationary Gas Turbines (1993 or most current version), and Rule 62-204.800(7)(a), F.A.C. The Subpart GG requirement to correct test data to ISO conditions applies. However, such correction is not used for compliance determinations with the BACT standard(s). All notifications and reports required by this specific condition shall be submitted to the DEP's Northeast District office.

c. Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting requirements and regulations (Rule 62-210.300, F.A.C.).

d. The emission unit shall be in compliance with all applicable provisions of Rule 62-210.650, F.A.C.: Circumvention; Rule 62-210.700, F.A.C.: Excess Emissions; Rule 62-204.800, F.A.C.: Standards of Performance for New Stationary Sources (NSPS); Chapter 62-297, F.A.C.: Stationary Sources - Emissions Monitoring; and, Rule 62-4.130, F.A.C.: Plant Operation - Problems.

e. If construction does not commence within 18 months of issuance of this permit, the ~~permittee~~ licensee shall obtain from the DEP's Bureau of Air Regulation a review and, if necessary, a modification of the BACT determination and allowable emissions for the unit(s) on which construction has not commenced (40 CFR 52.21(r)(2) (1993 or most current version)).

f. ~~Quarterly~~ Semiannual excess emission reports, in accordance with 40 CFR 60.7 and 60.334 (1993 or most current version), shall be submitted to the DEP's Northeast District office.

g. Pursuant to Rule 62-210.370(3), F.A.C., Annual Operating Reports, the ~~permittee~~ licensee is required to submit annual reports on the actual operating rates and emissions from this facility. These reports shall include, but are not limited to the following: sulfur content of the fuel being fired, fuel usage, hours of operation, etc. Annual operating reports shall be sent to the DEP's Northeast District office by March 1st of each calendar year.

h. Stack sampling facilities shall be installed in accordance with Rule 62-297.310(6), F.A.C.

7. Modifications

The ~~permittee~~ licensee shall give written notification to the DEP when there is any modification to this facility/emission unit pursuant to Rule 62-210.200, F.A.C., Definitions - Modifications. This notice shall be submitted sufficiently in advance of any critical date involved to allow sufficient time for review, discussion, and revision of the application/request, if necessary. Such notice shall include, but not be limited to: information describing the precise nature of the change; modification(s) to any emission

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control system; production capacity of the facility/emissions unit before and after the change; and, the anticipated completion date of the change.

Any party to the this Order has a right to seek judicial review of it pursuant to Section 120.68, Florida Statutes by filing a Notice of Appeal, pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department of Environmental Protection in the Office of General Counsel, 3900 Commonwealth Boulevard, M.S. 35, Tallahassee, Florida 32399-3000, and by filing a copy of the Notice of Appeal, accompanied by the applicable filing fees, with the appropriate District Court of Appeal. The Notice of Appeal must be filed within thirty days from the date this Order is filed with the Clerk of the Department of Environmental Protection.

Executed in Tallahassee, Florida.

Hamilton S. Oven

Hamilton S. Oven, P.E.

Administrator, Siting Coordination Office

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to §120.52
Florida Statutes, with the designated
Department Clerk, receipt of which is
hereby acknowledged.

Janda Kerokous

Clerk Date

8/11/05

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CC by certified mail:

James Antista, Esquire
Fish and Wildlife Conservation Commission
6230 South Meridian Street
Tallahassee, FL 32399-1600

Mary Ann Helton, Esquire
Florida Public Service Commission
Gerald Gunter Building
2450 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Jim Maher, PE
DEP Northeast District Office
Industrial Wastewater Supervisor
7825 Baymeadows Way, Suite B-200\
Jacksonville, FL 32256

Douglas Roberts, Esq
Hopping Green & Sams
Post Office Box 6526
Tallahassee, FL 32314

Dan Hargrove
2603 NE 17 Terrace
Gainesville, FL 32609-3241

Craig Varn, Esquire
Department of Community Affairs
2555 Shumard Oak Boulevard
Tallahassee, FL 32399-2100

Sheauching Yu, Esquire
Department of Transportation
Haydon Burns Building
605 Suwannee Street
Mail Station 58
Tallahassee, FL 32399-0450

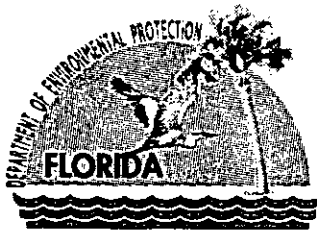
✓ Michael Cooke
Division of Air Resource Management
2600 Blair Stone Road MS 5500
Tallahassee, Florida 32399-2400

Tom Brown, Esq
Suwannee River Water Management District
9225 County Road 49
Live Oak, FL 32060

Jane Walker
Florida Defenders of the Environment, Inc.
10601 N.W. 23rd Ave
Gainesville, FL 32606

And by hand delivery to:

Scott A. Goorland, Esquire
Department of Environmental Protection
3900 Commonwealth Blvd.
Mail Station 35
Tallahassee, FL 32399-3000



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Governor

Department of Environmental Protection

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RECEIVED

JUN 23 2005

DIVISION OF AIR
RESOURCE MANAGEMENT

Colleen M. Castille
Secretary

June 22, 2005

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Gainesville, Florida 32614-7117

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INTENT TO MODIFY CONDITIONS OF CERTIFICATION

Dear Ms. Jonyas:

The Siting Board authorized the construction and operation of the **Deerhaven Generating Station** (PA 74-04) on May 16, 1978. The Department has modified the Conditions of Certification by Final Order on 6 other occasions. The Department has issued a final Title V Permit revision that would constitute a change to the Conditions of Certification, necessitating a modification. A notice of intent to modify conditions was published June 17, 2005. Gainesville Regional Utilities submitted comments requesting corrections to the proposed conditions.

The Department therefore withdraws the June 17th Notice of Intent and hereby re-notices its intent to modify the conditions of certification for **Gainesville Regional Utilities Deerhaven** (PA 74-04) to incorporate a final Title V Permit revision into the Conditions of Certification. Pursuant to Section 403.516, Florida Statutes ("F.S."), and Rule 62-17.211, Florida Administrative Code ("F.A.C."), all parties to the certification proceeding have 45 days from the issuance of this corrected notice by mail to such party's last address of record in which file a written objection to the modification. A public notice will be published on the Department's internet home page at <http://www.dep.state.fl.us/> under the link or button titled "Official Notices" regarding this Intent to Modify the Conditions of Certification. Any person who is not already a party to the certification proceeding and whose substantial interests will be affected by the requested modification has 30 days from the date of publication of the public notice on the FAW

"More Protection, Less Process"

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Printed on Recycled paper.

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CC by certified mail:

James Antista, Esquire
Fish and Wildlife Conservation Commission
6230 South Meridian Street
Tallahassee, FL 32399-1600

Craig Varn, Esquire
Department of Community Affairs
2555 Shumard Oak Boulevard
Tallahassee, FL 32399-2100

Mary Ann Helton, Esquire
Florida Public Service Commission
Gerald Gunter Building
2450 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Sheauching Yu, Esquire
Department of Transportation
Haydon Burns Building
605 Suwannee Street
Mail Station 58
Tallahassee, FL 32399-0450

Jim Maher, PE
DEP Northeast District Office
Industrial Wastewater Supervisor
7825 Baymeadows Way, Suite B-200\
Jacksonville, FL 32256

Michael Cooke
✓ Division of Air Resource Management
2600 Blair Stone Road MS 5500
Tallahassee, Florida 32399-2400

Douglas Roberts, Esq
Hopping Green & Sams
Post Office Box 6526
Tallahassee, FL 32314

Tom Brown, Esq
Suwannee River Water Management District
9225 County Road 49
Live Oak, FL 32060

Dan Hargrove
2603 NE 17 Terrace
Gainesville, FL 32609-3241

Jane Walker
Florida Defenders of the Environment, Inc.
10601 N.W. 23rd Ave
Gainesville, FL 32606

And by hand delivery to:

Scott A. Goorland, Esquire
Department of Environmental Protection
3900 Commonwealth Blvd.
Mail Station 35
Tallahassee, FL 32399-3000

XX/XX/05

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SPECIAL

I. Air

The operation of the Gainesville Regional Utilities Deerhaven Generating Station Unit No. 2 shall be in accordance with all applicable provisions of Title V Air Operation Permit 0010006-0043-AV and of any updates or modifications thereto, and of Chapters 62-210 through 62-297, F.A.C. In addition to the foregoing, the Licensee shall comply with the following conditions of certification as indicated.

A-G. No change

H. Deerhaven Combustion Turbine No. 3

The construction and operation of the Gainesville Regional Utilities (GRU) Deerhaven Combustion Turbine #3 (DHCT3) shall be in accordance with all applicable provisions of Chapters 62-210 through 297 and 62-4, Florida Administrative Code (F.A.C.), and 40 CFR 60, Subpart A, Subpart GG, Appendix A and Appendix B (1993 or most current version). The following emission limitations and conditions reflect the BACT determinations for the DHCT3. In addition to the foregoing, the project shall comply with Air Construction Permit No.: 00100006-004-AC/PSD-FL-212(A) and the following conditions of certification:

1. General Operating Requirements

a. The maximum heat input rates, based on high heating values of each fuel, to the DHCT3 and at ISO conditions (i.e., 59° F, 60% relative humidity and 101.3 kilopascals pressure), shall not exceed 971.1 MMBTU/hr, while firing natural gas, nor 990.6 MMBTU/hr, while firing fuel oil. Heat input will vary depending on ambient conditions and the DHCT3 characteristics. Manufacturer's curves or equations for correction to other ambient conditions shall be provided to the Department of Environmental Regulation Protection (DEP) at least 90 days before initial compliance testing.

b. The DHCT3 is allowed to operate up to 3900 hours per year, but not to exceed 2000 hours while firing fuel oil.

c. Only natural gas (NG) and/or No. 2 fuel oils (Nos. 1 or 2) shall be fired in the combustion turbine. The maximum sulfur content of the fuel oil shall not exceed 0.05 percent, by weight. GRU has established that there is approximately 55 hours of full load operation of fuel oil, which contains nominally 0.25% sulfur content, by weight, remaining in the fuel storage tank. GRU will be allowed to deplete this reserve by firing the fuel oil in the DHCT3. However, all future deliveries of fuel oil for the DHCT3 shall meet the BACT requirement, which limits the fuel oil sulfur content to no more than 0.05%, by weight. Fuel sulfur content shall be determined and recorded each time fuel is transferred into the bulk storage tank(s).

d. During the construction period, unconfined particulate matter emissions shall be minimized by dust suppressing techniques, such as covering and/or application of water or chemicals to the affected areas pursuant to Rule 62-296.310(3), F.A.C. - Unconfined Emissions of Particulate Matter.

e. Any change in the method of operation, equipment or operating hours, pursuant to Rule 62-210.200, F.A.C., Definitions - Modifications, shall be submitted to the DEP's Bureau of Air Regulation office and Northeast District office.

2. Emission Limits

a. The maximum allowable emissions from the DHCT3, when firing natural gas or No. 2 or distillate fuel oils (Nos. 1 or 2), in accordance with the BACT determination, and at 95 - 100% percent load based on the manufacturer's curves submitted to the DEP, shall not exceed the following limits except during periods of start up, shutdown, load changing, fuel switching and malfunction pursuant to Rule 62-210.700, F.A.C. and the BACT analysis (including the amended BACT):

MAXIMUM ALLOWABLE EMISSION LIMITS				
POLLUTANT	FUEL	BACT STANDARD	LBS/HR	*TPY
NOx	Gas	15 ppmvd @ 15% Oxygen(a)	58	113(a)
	Oil	42 ppmvd @ 15% Oxygen(a)	184	184(b)
			combined(c)	239
PM ₁₀	Gas	Good combustion; visible emissions shall not exceed 10% opacity (b)	7(d)	14(a)(d)
	Oil	Good combustion of low sulfur oil; <u>max.0.05% sulfur, by weight</u> ; visible emissions shall not exceed 10% opacity (b)	15(d)	15(b)(d)
		Good combustion of low sulfur oil; <u>max.0.05% sulfur, by weight</u> ; visible emissions shall not exceed 10% opacity (b)		
SO ₂	Gas	Good combustion (b)	29(d)	57(a)(d)

	Oil	Good combustion of low sulfur fuel oil: max. 0.05% sulfur content, by weight (b)	53(d)	53(b)(d)
	Oil	Good combustion, limited quantity: max. 0.25% sulfur content, by weight	combined (c)	84
H ₂ SO ₄ Mist	Gas	Good combustion (b)	3(d)	6(a)(d)
	Oil	Good combustion of low sulfur fuel oil: max. 0.05% sulfur content, by weight (b)	6(d)	6(b)(d)
	Oil	Good combustion, limited quantity: max. 0.25% sulfur content, by weight	combined (c)	9

* These values are calculated using F-factors.

(a) Based on a maximum of 3900 hours of operation with natural gas firing.

(b) based on a maximum of 2000 hours of operation with fuel oil firing.

(c) Based on 1900 hours natural gas firing and 2000 hours fuel oil firing.

(d) Compliance shall be demonstrated through fuel sulfur analysis.

(a) The averaging time shall be based on the test method.

(b) Compliance shall be demonstrated through combustion of pipeline natural gas and fuel oil sulfur analysis. [PA 74-04; PSD-FL-212; BACT; BACT, as amended; and 0010006-004-AC and PSD-FL-212(A)]

b. ~~Visible emissions shall not exceed 10% opacity when firing natural gas or No. 2 fuel oil.~~

c. The potential emissions projected from the DHCT3 are:

ESTIMATED POTENTIAL EMISSIONS		
Pollutant	Method of Control	TPY **
CO	Good combustion, proper use of water injection system	95.2
VOC	Good combustion	8.7
Mercury	Natural Gas/No. 2 Fuel Oil	0.001
Pb	Natural Gas/No. 2 Fuel Oil	0.0638
Be	Natural Gas/No. 2 Fuel Oil	0.00033

** TPY values are for annual operation reports (AOR) and PSD applicability determinations. These values are based on the DHCT3 operating at full load at ISO for a total of 3900 hours per year, with up to 2000 hours of No. 2 fuel oil-fired operation.

3. Compliance Determination

a. ~~Compliance with the allowable emission limiting standards shall be determined within 60 days after achieving the maximum production rate at which this unit will be operated, but not later than 180 days of initial operation at the maximum capability of the unit and annually thereafter, by using the following reference methods as described in 40 CFR 60, Appendix A (1993 or most current version), and adopted by reference in Chapter 62-297, F.A.C.~~

~~Initial (I) compliance tests shall be performed on the DHCT3 while firing each fuel (gas, oil). Annual (A) compliance tests shall be performed during every federal fiscal year (October 1 - September 30) pursuant to Rule 62-297.310, F.A.C., on the DHCT3 with the fuel(s) used for more than 400 hours in the preceding 12-month period.~~

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~~Method 9 Visual Determination of the Opacity of Emissions from Stationary Sources (I,A)~~

~~Method 10 Determination of Carbon Monoxide Emissions from Stationary Sources (I)~~

~~Method 20 Determination of Nitrogen Oxides and Diluent Emissions from Stationary Gas Turbines (I,A)~~

~~Note: No other methods may be used for compliance testing unless prior DEP approval is received in writing. The DEP may request a special compliance test pursuant to Rule 62-297.310(7)(b), F.A.C., when, after investigation (such as complaints, increased visible emissions, or questionable maintenance of control equipment), there is reason to believe that any applicable emission standard is being violated.~~

The NO_x CEMS shall be used for continuous compliance.

[PSD-FL-212 and PA 74-04; 0010006-004-AC/PSD-FL-212(A)]

b. Notwithstanding the requirements of Rule 62-297.310, F.A.C., the exclusive use of fuel oil with a maximum sulfur content limit of 0.05% or less, by weight, is the method for determining compliance for SO₂, H₂SO₄ mist, and PM₁₀. There is no suitable method for the testing of PM₁₀ from this type of emissions unit, and the SO₂ and H₂SO₄ emissions are clearly limited by the sulfur content of the fuel. Compliance with the SO₂ and sulfuric acid mist emission limits shall be determined by fuel oil analysis using ASTM D2880-71 or D4294 (or equivalent) for the sulfur content of liquid fuels and D1072-80, D3031-81, D4084-82 or D3246-81 (or equivalent) for sulfur content of gaseous fuel. Alternatively, natural gas supplier data for sulfur content may be submitted. However, the applicant is responsible for ensuring that the procedures above are used for determination of fuel sulfur content. Analysis may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency pursuant to 40 CFR 60.335(e) (1993 or most current version).

c. Pursuant to Rule 62-212.400, F.A.C., the permittee licensee shall install a dry low-NO_x combustor on the DHCT3 for NO_x control when firing natural gas. Control of NO_x when firing No. 2 fuel oil shall be accomplished by water injection.

d. An initial test for CO, concurrent with each NO_x test, is required to confirm that annual potential emissions will not exceed 100 TPY. The NO_x and initial CO test results shall be the average of three valid one-hour runs. The DEP's Northeast District office shall be notified, in writing, at least 30 days prior to the initial compliance tests and at least 15 days before annual compliance test(s). The combustion turbine shall operate between 95% and 100% of maximum capacity for the ambient conditions experienced during compliance test(s). The turbine manufacturer's heat input rates (based on the high heating value of the fuel) vs. ambient temperature curve shall be included with the compliance test results. The fuel feed rates and the high heating value of the fuels shall be established during the initial and annual compliance tests. Compliance test results shall be submitted to the DEP's Northeast District office no later than 45 days after completion of the last test run.

e. Excess NO_x emissions from this turbine resulting from startup, shutdown, malfunction, fuel switching or load change, shall be acceptable providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the DEP's Bureau of Air Regulation or the Northeast District office for a longer duration. Best operating practices shall be documented in writing and a copy submitted to the DEP's Northeast District office along with the initial compliance test data. The document may be updated as needed with all updates submitted to the DEP's Northeast District office within thirty (30) days of implementation and shall include time limitations on excess emissions caused by turbine startup.

4. Notification, Reporting and Recordkeeping

Notification and recordkeeping shall be in accordance with 40 CFR 60.7 (1993 or most current version). The following protocols shall be submitted to the DEP's Northeast District office for approval:

a. CEMS - If applicable, the Federal Acid Rain Program requirements of 40 CFR 75 shall apply when those requirements become effective in Florida.

b. Performance Test Protocol - At least 30 days prior to conducting the initial performance tests required by this permit, the permittee licensee shall submit to the DEP's Northeast District office for their review and approval: a protocol outlining the procedures to be followed; the test methods; and, any differences between the reference methods and the test methods proposed to be used to verify compliance with the conditions of this permit.

c. All measurements, records, and other data required to be maintained by GRU shall be retained for at least five (5) years following the date on which such measurements, records, or data are recorded. These data shall be made available to the DEP representatives.

5. Monitoring Requirements

a. The permittee licensee shall install, calibrate, maintain, and operate a continuous emission monitor in the stack to measure and record the nitrogen oxides emissions from this source. ~~One-hour periods when~~ An hour of excess emissions shall be any unit operating hour in which the 4-hour rolling average NOx emissions (ppmvd @ 15% oxygen) are above the BACT standards (15/42 gas/oil) shall be reported as excess emissions following the format of 40 CFR 60.7 (1993 or most current version). The continuous emission monitor must comply with Rule 62-297.520, F.A.C.; 40 CFR 60, Appendix F, Quality Assurance Procedures (1993 or most current version) (or other DEP approved QA plan); 40 CFR 60, Appendix B, Performance Specification 2 (1993 or most current version); or, if applicable, 40 CFR 75, Appendix A and Appendix B. Periods of startup, shutdown, fuel switching, malfunction, and load change shall be monitored and recorded. The NOx CEMS will be used in lieu of the water/fuel monitoring system and fuel bound nitrogen (FBN) monitoring, which are required in accordance with 40 CFR 60, Subpart GG (1993 or most current version), and are used as indicators of compliance with the NOx standard specified in the subpart. Since the NOx emission standard from Subpart GG is more than twice the BACT standard, monitoring for emissions in excess of the BACT limits using the NOx CEMS is more stringent. FBN levels are not required for excess emission reports when excess emissions are reported and based on the stack monitoring system. The calibration of the water/fuel monitoring device required in 40 CFR 60.335(c)(2) (1993 or most current version) will be replaced by certification tests of the NOx CEMS.

b. A malfunction means any sudden and unavoidable failure of air pollution control equipment or process equipment to operate in a normal or usual manner. Failures that are caused entirely or in part by poor maintenance, careless operation, or any other preventable upset condition or preventable equipment breakdown shall not be considered malfunctions and shall be prohibited pursuant to Rule 62-210.700, F.A.C.

c. The sulfur content of the fuel oil being fired in the combustion turbine shall be determined in accordance with 40 CFR 60.334(b) (1993 or most current version). Any request for a future custom monitoring schedule shall be made in writing and directed to the DEP's Bureau of Air Regulation office. Any custom schedule approved by the DEP pursuant to 40 CFR 60.334(b) (1993 or most current version) will be recognized as enforceable provisions of the permit, provided that the holder

of this permit demonstrates that the provisions of the schedule will be adequate to assure continuous compliance. The records of natural gas and No. 2 fuel oil usage shall be kept by the company for a five-year period for regulatory agency inspection purposes.

6. Rule Requirements

a. The emission unit shall be in compliance with all applicable provisions of Chapter 403, Florida Statutes, and Chapters 62-4, 204, 210, 212, 296 and 297, F.A.C.

b. The emission unit shall be in compliance with all applicable requirements of 40 CFR 60, Subpart A, Appendix A and Appendix B (1993 or most current version), Subpart GG - Standards of Performance for Stationary Gas Turbines (1993 or most current version), and Rule 62-204.800(7)(a), F.A.C. The Subpart GG requirement to correct test data to ISO conditions applies. However, such correction is not used for compliance determinations with the BACT standard(s). All notifications and reports required by this specific condition shall be submitted to the DEP's Northeast District office.

c. Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting requirements and regulations (Rule 62-210.300, F.A.C.).

d. The emission unit shall be in compliance with all applicable provisions of Rule 62-210.650, F.A.C.: Circumvention; Rule 62-210.700, F.A.C.: Excess Emissions; Rule 62-204.800, F.A.C.: Standards of Performance for New Stationary Sources (NSPS); Chapter 62-297, F.A.C.: Stationary Sources - Emissions Monitoring; and, Rule 62-4.130, F.A.C.: Plant Operation - Problems.

e. If construction does not commence within 18 months of issuance of this permit, the permittee licensee shall obtain from the DEP's Bureau of Air Regulation a review and, if necessary, a modification of the BACT determination and allowable emissions for the unit(s) on which construction has not commenced (40 CFR 52.21(r)(2) (1993 or most current version)).

f. Quarterly Semiannual excess emission reports, in accordance with 40 CFR 60.7 and 60.334 (1993 or most current version), shall be submitted to the DEP's Northeast District office.

g. Pursuant to Rule 62-210.370(3), F.A.C., Annual Operating Reports, the permittee licensee is required to submit annual reports on the actual operating rates and emissions from this facility. These reports shall include, but are not limited to the following: sulfur content of the fuel being fired, fuel usage, hours of operation, etc. Annual operating reports shall be sent to the DEP's Northeast District office by March 1st of each calendar year.

h. Stack sampling facilities shall be installed in accordance with Rule 62-297.310(6), F.A.C.

7. Modifications

The permittee licensee shall give written notification to the DEP when there is any modification to this facility/emission unit pursuant to Rule 62-210.200, F.A.C., Definitions - Modifications. This notice shall be submitted sufficiently in advance of any critical date involved to allow sufficient time for review, discussion, and revision of the application/request, if necessary. Such notice shall include, but not be limited to: information describing the precise nature of the change; modification(s) to any emission

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OGC Case Number 05-1496
July XX, 2005

control system; production capacity of the facility/emissions unit before and after the change; and, the anticipated completion date of the change.

Any party to the this Order has a right to seek judicial review of it pursuant to Section 120.68, Florida Statutes by filing a Notice of Appeal, pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department of Environmental Protection in the Office of General Counsel, 3900 Commonwealth Boulevard, M.S. 35, Tallahassee, Florida 32399-3000, and by filing a copy of the Notice of Appeal, accompanied by the applicable filing fees, with the appropriate District Court of Appeal. The Notice of Appeal must be filed within thirty days from the date this Order is filed with the Clerk of the Department of Environmental Protection.

Executed in Tallahassee, Florida.

Hamilton S. Oven, P.E.
Administrator, Siting Coordination Office

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to §120.52
Florida Statutes, with the designated
Department Clerk, receipt of which is
hereby acknowledged.

Clerk Date

Deerhaven Generating Station
Modification to Conditions of Certification
DEP Case Number PA 74-04G
OGC Case Number 05-1496
July XX, 2005

CC by certified mail:

James Antista, Esquire
Fish and Wildlife Conservation Commission
6230 South Meridian Street
Tallahassee, FL 32399-1600

Craig Varn, Esquire
Department of Community Affairs
2555 Shumard Oak Boulevard
Tallahassee, FL 32399-2100

Mary Ann Helton, Esquire
Florida Public Service Commission
Gerald Gunter Building
2450 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Sheauching Yu, Esquire
Department of Transportation
Haydon Burns Building
605 Suwannee Street
Mail Station 58
Tallahassee, FL 32399-0450

Jim Maher, PE
DEP Northeast District Office
Industrial Wastewater Supervisor
7825 Baymeadows Way, Suite B-200\
Jacksonville, FL 32256

Michael Cooke
Division of Air Resource Management
2600 Blair Stone Road MS 5500
Tallahassee, Florida 32399-2400

Douglas Roberts, Esq
Hopping Green & Sams
Post Office Box 6526
Tallahassee, FL 32314

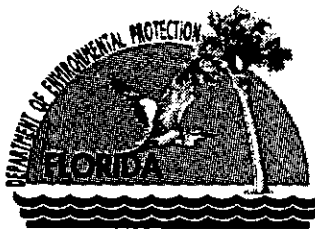
Tom Brown, Esq
Suwannee River Water Management District
9225 County Road 49
Live Oak, FL 32060

Dan Hargrove
2603 NE 17 Terrace
Gainesville, FL 32609-3241

Jane Walker
Florida Defenders of the Environment, Inc.
10601 N.W. 23rd Ave
Gainesville, FL 32606

And by hand delivery to:

Scott A. Goorland, Esquire
Department of Environmental Protection
3900 Commonwealth Blvd.
Mail Station 35
Tallahassee, FL 32399-3000



Jeb Bush
Governor

Department of Environmental Protection

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

RECEIVED

JUN 14 2005

DIVISION OF AIR
RESOURCE MANAGEMENT

Colleen M. Castille
Secretary

June 13, 2005

- CERTIFIED MAIL - RETURN RECEIPT REQUESTED -

Jeff Bruce

Ms. Yolanta E. Jonyas
Gainesville Regional Utilities
Post Office Box 147117
Station A136
Gainesville, Florida 32614-7117

**RE: Deerhaven Generating Station
Modification to Conditions of Certification
DEP Case Number PA 74-04G
OGC Case Number 05-1496**

INTENT TO MODIFY CONDITIONS OF CERTIFICATION

Dear Ms. Jonyas:

The Siting Board authorized the construction and operation of the **Deerhaven Generating Station** (PA 74-04) on May 16, 1978. The Department has modified the Conditions of Certification by Final Order on 6 other occasions. The Department has issued a final Title V Permit revision that would constitute a change to the Conditions of Certification, necessitating a modification.

The Department therefore gives notice to Hillsborough County of its intent to modify the conditions of certification for **Gainesville Regional Utilities Deerhaven** (PA 74-04) to incorporate a final Title V Permit revision into the Conditions of Certification. Pursuant to Section 403.516, Florida Statutes ("F.S."), and Rule 62-17.211, Florida Administrative Code ("F.A.C."), all parties to the certification proceeding have 45 days from the issuance of this corrected notice by mail to such party's last address of record in which file a written objection to the modification. A public notice will be published on the Department's internet home page at <http://www.dep.state.fl.us/> under the link or button titled "Official Notices" regarding this Intent to Modify the Conditions of Certification. Any person who is not already a party to the certification proceeding and whose substantial interests will be affected by the requested modification has 30 days from the date of publication of the public notice on the FAW to object in writing. Failure to act within the time frame constitutes a waiver of the right to become a party.

Written objections must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, MS 35, Tallahassee, Florida 32399-3000. If the Department does not receive any written objections, then an Order Modifying the Conditions of Certification shall be issued by the Department. If written objections are timely filed which address only a portion of the modification, then pursuant to Rule 62-17.211(1)(b)5., F.A.C. the Department shall issue an Order approving that portion of the modification to which no objections were filed, unless that portion of the modification is substantially related to or necessary to implement the portion to which written objections are filed. If written objections are raised, then pursuant to Section 403.516(1)(c), F.S., the applicant may file a petition for modification with the Department and the Division of Administrative Hearings seeking approval for those portions of the modification to which written objections were timely filed.

Mediation is not available in this proceeding.

Any questions regarding this Intent to Modify Conditions of Certification should be directed to Hamilton S. Oven at (850) 245-8002. Questions regarding legal issues should be referred to the Department's Office of General Counsel at (850) 245-2242. Such contact with any of the above does not constitute an objection to the modification.

Sincerely,

Hamilton S. Oven

Hamilton S. Oven, P.E.
Administrator, Siting Coordination Office

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to §120.52
Florida Statutes, with the designated
Department Clerk, receipt of which is
hereby acknowledged.

Landa Karakou

Clerk

6-13-05

Date

Gainesville Regional Utilities Deerhaven
Order Modifying Conditions of Certification
DEP Case Number PA74-04G
6/13/2005

CC by certified mail:

James Antista, Esquire
Fish and Wildlife Conservation Commission
6230 South Meridian Street
Tallahassee, FL 32399-1600

Mary Ann Helton, Esquire
Florida Public Service Commission
Gerald Gunter Building
2450 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Jim Maher, PE
DEP Northeast District Office
Industrial Wastewater Supervisor
7825 Baymeadows Way, Suite B-200\
Jacksonville, FL 32256

Douglas Roberts, Esq
Hopping Green & Sams
Post Office Box 6526
Tallahassee, FL 32314

Dan Hargrove
2603 NE 17 Terrace
Gainesville, FL 32609-3241

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605 Suwannee Street
Mail Station 58
Tallahassee, FL 32399-0450

✓ Michael Cooke
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2600 Blair Stone Road MS 5500
Tallahassee, Florida 32399-2400

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Gainesville, FL 32606

And by hand delivery to:

Scott A. Goorland, Esquire
Department of Environmental Protection
3900 Commonwealth Blvd.
Mail Station 35
Tallahassee, FL 32399-3000

XX/XX/05

- CERTIFIED MAIL - RETURN RECEIPT REQUESTED -

Ms. Yolanta E. Jonyas
Gainesville Regional Utilities
Post Office Box 147117
Station A136
Gainesville, Florida 32614-7117

**RE: Deerhaven Generating Station
Modification to Conditions of Certification
DEP Case Number PA 74-04G
OGC Case Number 05-XXXX**

FINAL ORDER MODIFYING CONDITIONS OF CERTIFICATION

Dear MS. Jonyas:

On December 28, 2004, the Department of Environmental Protection (DEP) issued a final Title -V permit revision (0010006-003-AV) for **Deerhaven Generating Station** (Deerhaven). Review of the Conditions of Certification for Deerhaven indicated that a modification would be necessary.

On or before June 17, 2005 all parties to the certification proceeding were provided with notice by certified mail of the Department's intent to modify the Conditions of Certification for this facility, along with a copy of the proposed Order Modifying Conditions of Certification. Additionally, on June 17, 2005, notice of the Department's intent to modify the Conditions of Certification for this facility was published on the Department's internet home page at <http://www.dep.state.fl.us/> under the link or button titled "Official Notices." Those notices specified that pursuant to Section 403.516, Florida Statutes ("F.S."), and Rule 62-17.211, Florida Administrative Code ("F.A.C."), all parties to the certification proceeding have 45 days from the issuance of notice by mail to such party's last address of record in which to file a written objection to the modification; that any person who is not already a party to the certification proceeding and whose substantial interests will be affected by the requested modification has 30 days from the date of publication of the public notice on the Department's internet home page to

object in writing; that failure to act within the time frame constitutes a waiver of the right to become a party; and that the Department will issue an Order Modifying the Conditions of Certification for this facility if no written objections are received by the Department.

No objections to the modification have been received by the Department. The Conditions of Certification for Deerhaven are hereby modified as follows:

- All reference to 'permittee' is changed to 'licensee'
- All reference to DER is changed to DEP
- All reference to Chapter 17 is changed to Chapter 62
- All reference to the Department of Environmental Regulation will be changed to Department of Environmental Protection

GENERAL

2. Non-Compliance Notification

If, for any reason, the ~~permittee~~ licensee does not comply with or may be unable to comply with any limitation specified in this certification, the ~~permittee~~ licensee shall notify the Gainesville Field Office ~~Lower St. Johns River Subdistrict~~ Manager of the Department by telephone at **352-333-2850** during the working day that said noncompliance occurs and shall confirm this in writing within seventy-two (72) hours of becoming aware of such conditions, and shall supply the following information:

SPECIAL

I. Air

The operation of the Gainesville Regional Utilities Deerhaven Generating Station shall be in accordance with all applicable provisions of Title V Air Operation Permit 0010006-0043-AV and of any updates or modifications thereto, and of Chapters 62-210 through 62-297, F.A.C. In addition to the foregoing, the Licensee shall comply with the following conditions of certification as indicated.

A-G. No change

H. Deerhaven Combustion Turbine No. 3

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1. No change
2. Emission Limits

a. The maximum allowable emissions from the DHCT3, when firing natural gas or ~~No. 2 or distillate~~ fuel oils (Nos. 1 or 2), in accordance with the BACT determination, and at 95 - 100% percent load based on the manufacturer's curves submitted to the DEP, shall not exceed the following

limits except during periods of start up, shutdown, load changing, fuel switching and malfunction pursuant to Rule 62-210.700, F.A.C. and the BACT analysis (including the amended BACT):

MAXIMUM ALLOWABLE EMISSION LIMITS				
POLLUTANT	FUEL	BACT STANDARD	LBS/HR	*TPY
NOx	Gas	15 ppmvd @ 15% Oxygen(a)	58	113(a)
	Oil	42 ppmvd @ 15% Oxygen(a)	184	184(b)
			combined(c)	239
PM ₁₀	Gas	Good combustion; visible emissions shall not exceed 10% opacity (b)	7(d)	14(a)(d)
	Oil	Good combustion of low sulfur oil; max.0.05% sulfur, by weight; visible emissions shall not exceed 10% opacity (b)	15(d)	15(b)(d)
		Good combustion of low sulfur oil; max.0.05% sulfur, by weight; visible emissions shall not exceed 10% opacity (b)		
SO ₂	Gas	Good combustion (b)	29(d)	57(a)(d)
	Oil	Good combustion of low sulfur fuel oil: max. 0.05% sulfur content, by weight (b)	53(d)	53(b)(d)
	Oil	Good combustion, limited quantity: max. 0.25% sulfur content, by weight	combined (c)	81
H ₂ SO ₄ Mist	Gas	Good combustion (b)	3(d)	6(a)(d)
	Oil	Good combustion of low sulfur fuel oil: max. 0.05% sulfur content, by weight (b)	6(d)	6(b)(d)
	Oil	Good combustion, limited quantity: max. 0.25% sulfur content, by weight	combined (c)	9

* These values are calculated using F-factors.

(a) Based on a maximum of 3900 hours of operation with natural gas firing.

(b) based on a maximum of 2000 hours of operation with fuel oil firing.

(c) Based on 1900 hours natural gas firing and 2000 hours fuel oil firing.

(d) Compliance shall be demonstrated through fuel sulfur analysis.

(a) The averaging time shall be based on the test method.

(b) Compliance shall be demonstrated through combustion of pipeline natural gas and fuel oil sulfur analysis. [PA 74-04; PSD-FL-212; BACT; BACT, as amended; and 0010006-004-AC and PSD-FL-212(A)]

Any party to the this Order has a right to seek judicial review of it pursuant to Section 120.68, Florida Statutes by filing a Notice of Appeal, pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department of Environmental Protection in the Office of General Counsel, 3900 Commonwealth Boulevard, M.S. 35, Tallahassee, Florida 32399-3000, and by filing a copy of the Notice of Appeal, accompanied by the applicable filing fees, with the appropriate District Court of Appeal. The Notice of Appeal must be filed within thirty days from the date this Order is filed with the Clerk of the Department of Environmental Protection.

Executed in Tallahassee, Florida.

Deerhaven Generating Station
Modification to Conditions of Certification
DEP Case Number PA 74-04G
OGC Case Number 05-XXXX
June XX, 2005

Hamilton S. Oven, P.E.
Administrator, Siting Coordination Office

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to §120.52
Florida Statutes, with the designated
Department Clerk, receipt of which is
hereby acknowledged.

Clerk Date

Deerhaven Generating Station
Modification to Conditions of Certification
DEP Case Number PA 74-04G
OGC Case Number 05-XXXX
June XX, 2005

CC by certified mail:

James Antista, Esquire
Fish and Wildlife Conservation Commission
6230 South Meridian Street
Tallahassee, FL 32399-1600

Mary Ann Helton, Esquire
Florida Public Service Commission
Gerald Gunter Building
2450 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Jim Maher, PE
DEP Northeast District Office
Industrial Wastewater Supervisor
7825 Baymeadows Way, Suite B-200\
Jacksonville, FL 32256

Douglas Roberts, Esq
Hopping Green & Sams
Post Office Box 6526
Tallahassee, FL 32314

Dan Hargrove
2603 NE 17 Terrace
Gainesville, FL 32609-3241

Craig Varn, Esquire
Department of Community Affairs
2555 Shumard Oak Boulevard
Tallahassee, FL 32399-2100

Sheauching Yu, Esquire
Department of Transportation
Haydon Burns Building
605 Suwannee Street
Mail Station 58
Tallahassee, FL 32399-0450

Michael Cooke
Division of Air Resource Management
2600 Blair Stone Road MS 5500
Tallahassee, Florida 32399-2400

Tom Brown, Esq
Suwannee River Water Management District
9225 County Road 49
Live Oak, FL 32060

Jane Walker
Florida Defenders of the Environment, Inc.
10601 N.W. 23rd Ave
Gainesville, FL 32606

And by hand delivery to:

Scott A. Goorland, Esquire
Department of Environmental Protection
3900 Commonwealth Blvd.
Mail Station 35
Tallahassee, FL 32399-3000