

Friday, Barbara

From: Harvey, Mary
Sent: Wednesday, June 20, 2007 9:45 AM
To: Adams, Patty
Subject: FW: Ltr. - Lake Cogeneration Facility

6/13/07 Permit Signature.
From: Thomas Grace [<mailto:tgrace@caithnessenergy.com>]
Sent: Tuesday, June 19, 2007 10:19 PM
To: Harvey, Mary
Subject: Read: Ltr. - Lake Cogeneration Facility

Your message

To: tgrace@caithnessenergy.com
Subject:

was read on 6/19/2007 10:19 PM.

Friday, Barbara

From: Harvey, Mary
Sent: Wednesday, June 20, 2007 1:08 PM
To: Adams, Patty
Subject: FW: Ltr. - Lake Cogeneration Facility

From: Thomas Grace [mailto:tgrace@caithnessenergy.com]
Sent: Wednesday, June 20, 2007 11:00 AM
To: Harvey, Mary
Subject: RE: Ltr. - Lake Cogeneration Facility

Document received. Thanks

Tom Grace

-----Original Message-----

From: Harvey, Mary [mailto:Mary.Harvey@dep.state.fl.us]
Sent: Tuesday, June 19, 2007 1:03 PM
To: Thomas Grace; Scott Osbourn, P.E., Golder Associates, Inc.,; Bradner, James; Katy Forney, EPA Region 4,; James Miller
Cc: Adams, Patty; Gibson, Victoria; Arif, Syed
Subject: Ltr. - Lake Cogeneration Facility

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

The document(s) may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible.

The document is in Adobe Portable Document Format (pdf). Adobe Acrobat Reader can be downloaded for free at the following internet site:
<http://www.adobe.com/products/acrobat/readstep.html>.

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record.

Thank you,

DEP, Bureau of Air Regulation

6/25/2007

Friday, Barbara

From: Harvey, Mary
Sent: Wednesday, June 20, 2007 9:46 AM
To: Adams, Patty
Subject: FW: Ltr. - Lake Cogeneration Facility

From: Osbourn, Scott [mailto:Scott_Osbourn@golder.com]
Sent: Tuesday, June 19, 2007 4:45 PM
To: undisclosed-recipients
Subject: Read: Ltr. - Lake Cogeneration Facility

Your message

To: Scott_Osbourn@golder.com
Subject:

was read on 6/19/2007 4:45 PM.

Friday, Barbara

From: Harvey, Mary
Sent: Wednesday, June 20, 2007 9:45 AM
To: Adams, Patty
Subject: FW: Ltr. - Lake Cogeneration Facility

From: Bradner, James
Sent: Wednesday, June 20, 2007 8:17 AM
To: Harvey, Mary
Subject: Read: Ltr. - Lake Cogeneration Facility

Your message

To: 'Thomas A. Grace, Lake Cogeneration L.P.,'; 'Scott Osbourn, P.E., Golder Associates, Inc.,'; Bradner, James; 'Katy Fomey, EPA Region 4,'; 'James Miller, Plant Manager:'
Cc: Adams, Patty; Gibson, Victoria; Arif, Syed
Subject: Ltr. - Lake Cogeneration Facility
Sent: 6/19/2007 4:03 PM

was read on 6/20/2007 8:17 AM.

Friday, Barbara

From: Harvey, Mary
Sent: Friday, June 15, 2007 8:54 AM
To: Adams, Patty; Cascio, Tom
Subject: FW: Lake Cogeneration Facility - ID #0694801-008-AC-FINAL

From: Thomas Grace [mailto:tgrace@caithnessenergy.com]
Sent: Thursday, June 14, 2007 4:57 PM
To: Harvey, Mary
Subject: RE: Lake Cogeneration Facility - ID #0694801-008-AC-FINAL

Hi Mary,

The zip file containing the Construction Permit #0694801-008-AC, has been received.

Thanks

Tom Grace

-----Original Message-----

From: Harvey, Mary [mailto:Mary.Harvey@dep.state.fl.us]
Sent: Wednesday, June 13, 2007 11:06 AM
To: James Miller; Scott Osbourn, P.E., Golder Associates, Inc.; Bradner, James; Thomas Grace
Cc: Cascio, Tom; Adams, Patty; Gibson, Victoria
Subject: Lake Cogeneration Facility - ID #0694801-008-AC-FINAL

Dear Sir/Madam:

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Thank you,

6/25/2007

Friday, Barbara

From: Harvey, Mary
Sent: Thursday, June 14, 2007 8:59 AM
To: Adams, Patty; Cascio, Tom
Subject: FW: Lake Cogeneration Facility - ID #0694801-008-AC-FINAL

From: Thomas Grace [<mailto:tgrace@caithnessenergy.com>]
Sent: Wednesday, June 13, 2007 4:56 PM
To: Harvey, Mary
Subject: Read: Lake Cogeneration Facility - ID #0694801-008-AC-FINAL

Your message

To: tgrace@caithnessenergy.com
Subject:

was read on 6/13/2007 4:56 PM.

Friday, Barbara

From: Harvey, Mary
Sent: Wednesday, June 13, 2007 2:06 PM
To: 'James Miller, Plant Manager:; 'Scott Osbourn, P.E., Golder Associates, Inc.:; Bradner, James; 'Thomas A. Grace, Lake Cogeneration L.P.:'
Cc: Cascio, Tom; Adams, Patty; Gibson, Victoria
Subject: Lake Cogeneration Facility - ID #0694801-008-AC-FINAL
Attachments: 0694801.008.AC.F_pdf.zip

Dear Sir/Madam:

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Thank you,

DEP, Bureau of Air Regulation

6/25/2007

Friday, Barbara

From: Harvey, Mary
Sent: Wednesday, June 13, 2007 2:09 PM
To: 'Ms. Kathleen Forney, EPA Region 4'; 'James Little, EPA Region 4.'
Cc: Cascio, Tom; Adams, Patty
Subject: FW: Lake Cogeneration Facility - ID #0694801-008-AC-FINAL
Attachments: AppendixC - Facility #0694801-008-AC-FINAL.PDF; AppendixGC - Facility #0694801-008-AC - FINAL.PDF; Cover Page - Facility #0694801-008-AC - FINAL.PDF; Final Determination 2007 - Facility #0694801-008-AC-FINAL.PDF; Final Notice 2007 - Facility #0694801-008-AC-FINAL.PDF; Section1 - Facility #0694801-008-AC-FINAL.PDF; Section2 - Facility #0694801-008-AC-FINAL.PDF; Section3 Revised - Facility #0694801-008-AC-FINAL.PDF; Signed Documnets for Facility #0694801-008-AC-FINAL.pdf

From: Harvey, Mary
Sent: Wednesday, June 13, 2007 2:06 PM
To: 'James Miller, Plant Manager:'; 'Scott Osbourn, P.E., Golder Associates, Inc.:'; Bradner, James; 'Thomas A. Grace, Lake Cogeneration L.P.:'
Cc: Cascio, Tom; Adams, Patty; Gibson, Victoria
Subject: Lake Cogeneration Facility - ID #0694801-008-AC-FINAL

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Thank you,

DEP, Bureau of Air Regulation

6/25/2007

Friday, Barbara

From: Harvey, Mary
Sent: Wednesday, June 13, 2007 4:25 PM
To: Adams, Patty; Cascio, Tom
Subject: FW: Lake Cogeneration Facility - ID #0694801-008-AC-FINAL

From: Osbourn, Scott [mailto:Scott_Osbourn@golder.com]
Sent: Wednesday, June 13, 2007 4:05 PM
To: Harvey, Mary
Subject: Read: Lake Cogeneration Facility - ID #0694801-008-AC-FINAL

Your message

To: Scott_Osbourn@golder.com
Subject:

was read on 6/13/2007 4:05 PM.

Friday, Barbara

From: Harvey, Mary
Sent: Wednesday, June 13, 2007 3:49 PM
To: Adams, Patty; Cascio, Tom
Subject: FW: Lake Cogeneration Facility - ID #0694801-008-AC-FINAL

From: Bradner, James
Sent: Wednesday, June 13, 2007 2:22 PM
To: Harvey, Mary
Subject: Read: Lake Cogeneration Facility - ID #0694801-008-AC-FINAL

Your message

To: 'James Miller, Plant Manager:'; 'Scott Osbourn, P.E., Golder Associates, Inc.:'; Bradner, James; 'Thomas A. Grace, Lake Cogeneration L.P.:'
Cc: Cascio, Tom; Adams, Patty; Gibson, Victoria
Subject: Lake Cogeneration Facility - ID #0694801-008-AC-FINAL
Sent: 6/13/2007 2:06 PM

was read on 6/13/2007 2:22 PM.



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

PERMITTEE

Lake Cogeneration L.P.
39001 Golden Gem Drive
Umatilla, Florida 32784

Authorized Representative:
Mr. James Miller, Plant Manager

Air Permit No. 0694801-008-AC
Facility ID No. 0694801
SIC No. 4931
SPRINT Project

Permit Expires: December 31, 2008

PROJECT AND LOCATION

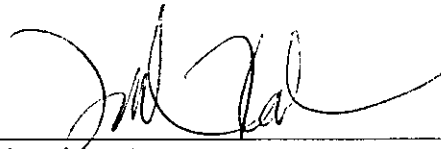
This permit authorizes installation of spray intercooling (SPRINT) systems on the compressors of two gas turbines designated by the applicant as Units 1 and Unit 2 and by the Department of Environmental Protection (Department) Air Resource Management System as emissions units EU-003 and EU-004 located at the Lake Cogeneration L.P. Facility (the facility). The facility is located in Lake County at 39001 Golden Gem Drive, Umatilla, Florida 32784.

STATEMENT OF BASIS

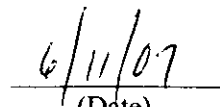
This air pollution construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.) and Title 40, Parts 60 and 63 of the Code of Federal Regulations (CFR). The permittee is authorized to install the proposed equipment in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department.

CONTENTS

- Section 1. General Information
- Section 2. Administrative Requirements
- Section 3. Emissions Units Specific Conditions
- Section 4. Appendices



Joseph Kahn, Director
Division of Air Resource Management



6/11/07
(Date)

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

NOTICE OF FINAL PERMIT

Electronically sent – Received Receipt requested.

In the Matter of an
Application for Permit by:

Lake Cogeneration L.P.
39001 Golden Gem Drive
Umatilla, Florida 32784

Authorized Representative:

Mr. James Miller, Plant Manager

DEP File No. 0694801-008-AC
Lake Cogeneration Facility
SPRINT Project
Lake County, Florida
Expires: December 31, 2008

Enclosed is Final Air Construction Permit No. 0694801-008-AC that authorizes installation of spray intercooling (SPRINT) systems on the compressors of two gas turbines designated by the applicant as Units 1 and Unit 2 and by the Department of Environmental Protection (Department) Air Resource Management System as emissions units EU-003 and EU-004 located at the Lake Cogeneration L.P. Facility (the facility). The facility is located in Lake County at 39001 Golden Gem Drive, Umatilla, Florida 32784.

As noted in the attached Final Determination, no changes were made to the Draft Permit. This permit is issued pursuant to Chapter 403, Florida Statutes.

Any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, 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 must be filed within thirty (30) days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.



Trina L. Vielhauer, Chief
Bureau of Air Regulation

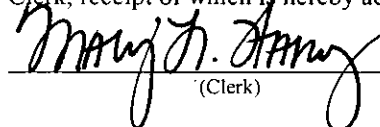
CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Construction Permit, Final Determination, and all copies were sent electronically (with Received Receipt) before the close of business on 6/13/07 to the person(s) listed below.

James Miller, Plant Manager: jmiller@caithnessenergy.com
Scott Osbourn, P.E., Golder Associates, Inc.: sosbourn@golder.com
James Bradner, P.E., Central District Office: james.bradner@dep.state.fl.us
Thomas A. Grace, Lake Cogeneration L.P.: tgrace@caithnessenergy.com
Katy Forney, EPA Region 4: forney.kathleen@epa.gov
James Little, EPA Region 4: little.james@epa.gov

Clerk Stamp


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)

6/13/07
(Date)

MEMORANDUM

To: Joseph Kahn

From: Trina L. Vielhauer 

Subject: Lake Cogeneration Facility
Air Construction Permit No. 0694801-008-AC

Date: June 7, 2007

Attached is the final air construction permit for the subject facility. This permit authorizes installation of spray intercooling (SPRINT) systems on the compressors of two gas turbines designated by the applicant as Units 1 and Unit 2. It also establishes these changes as applicable Title V Air Operation Permit conditions.

The Department distributed an "Intent to Issue Permit" package on May 4, 2007. The applicant published the "Public Notice of Intent to Issue" in the Orlando Sentinel on May 9, 2007. No petitions for administrative hearings or extensions of time to petition for an administrative hearing were filed. Minor comments were received from the Applicant on the Intent to Issue the Air Construction Permit package.

I recommend your signature.

FINAL DETERMINATION

PERMITTEE

Lake Cogeneration L.P.
39001 Golden Gem Drive
Umatilla, Florida 32784

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Division of Air Resource Management
Bureau of Air Regulation, Permitting South Section
2600 Blair Stone Road, MS 5505
Tallahassee, Florida 32399-2400

PROJECT

Air Permit No. 0694801-008-AC

Lake Cogeneration Facility

This permit authorizes installation of spray intercooling (SPRINT) systems on the compressors of two gas turbines designated by the applicant as Units 1 and Unit 2 and by the Department of Environmental Protection (Department) Air Resource Management System as emissions units EU-003 and EU-004 located at the Lake Cogeneration L.P. Facility (the facility). The facility is located in Lake County at 39001 Golden Gem Drive, Umatilla, Florida 32784.

NOTICE AND PUBLICATION

The Department distributed an "Intent to Issue Permit" package on May 4, 2007. The applicant published the "Public Notice of Intent to Issue" in the Orlando Sentinel on May 9, 2007. No petitions for administrative hearings or extensions of time to petition for an administrative hearing were filed. The following comments were received from the Applicant on the Draft Permit Intent Package in an e-mail memorandum dated May 22, 2007.

Comment 1:

On the TE&PD, page 3 of 8, it looks like part of the text was deleted at the bottom of the page.

Department Response:

The Applicant is referring to a sentence fragment that has been deleted.

Comment 2:

On the TE&PD, page 8 of 8, under "Other Applicable Requirements"-- it's acknowledged that the Applicant will be installing NO_x CEMS for CAIR, which will make it easier to track one of the two critical pollutants (NO_x and CO).

Department Response:

No response necessary – the Department acknowledges the comment.

FINAL DETERMINATION

Comment 3:

The CEMS timing may end up affecting the compliance testing obligations under the draft permit, Condition 8 (page 4). Depending on when it's proposed to install the NO_x CEMS for CAIR (need by 2009), it may be possible to delete the annual NO_x testing obligation. This may be significant, as the language seems to state that you test annually for all NO_x and CO limits (i.e., CO from CTs and from CT+DB, same with NO_x). There may also be an issue with getting to >90% capacity on the DBs for the annual testing.

Department Response:

No response necessary – the Department acknowledges the comment.

Comment 4:

For Condition 14.a, can we propose that the NO_x emissions be tracked and reported by CEMS?

Department Response:

The Department concurs with the suggestion. Further, pursuant to Department Rule 62-210.370, F.A.C., the owner or operator shall employ, on a pollutant-specific basis, the most accurate of the approaches described in the Rule to compute the emissions of a pollutant from an emissions unit. And, if the emissions unit is equipped with a continuous emissions monitoring system (CEMS) meeting the applicable certification and quality assurance requirements of 40 CFR Part 60, the owner or operator shall use such CEMS to compute the emissions of the pollutant. Specific Condition 14.a. has been modified to reflect this requirement.

CONCLUSION

The final action of the Department is to issue the permit with the minor edits noted above.

SECTION 1. GENERAL INFORMATION

FACILITY AND PROJECT DESCRIPTION

Lake Cogeneration L.P. consists primarily of two 42 megawatt (MW) combined-cycle units (Units 1 and 2). The two units are designated as Emissions Units EU-003 and 004 in the Department's Air Resource Management System (ARMS).

Each unit consists of a General Electric LM6000PA combustion turbine-electrical generator (CTG) equipped with an air chiller system and a supplementary-fired heat recovery steam generator (HRSG). The steam from the two CTG/HRSGs is available for use by local industries, to make distilled water or in a single nominal 26.5 steam turbine-electrical generator (STG) to produce additional electricity.

The two combined cycle units operate primarily on natural gas. There is a 170,000 gallon storage tank designated as ARMS EU-002.

The project is to add spray intercooling (SPRINT) systems to each CTG to increase power output. Equipment will be installed to inject atomized water into the compressor between the high-pressure and low-pressure compressors. The maximum heat input rate when firing natural gas is expected to increase from 423 to 435 million British thermal units (MMBtu) per hour per CTG.

ID	Emission Unit Description
003	Combined Cycle Combustion Turbine with Duct Burner
004	Combined Cycle Combustion Turbine with Duct Burner

REGULATORY CLASSIFICATION

NESHAP: The facility IS NOT a potential major source of hazardous air pollutants. The facility DOES NOT OPERATE units subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) in 40 CFR 63.

Title IV: The facility DOES NOT OPERATE existing units subject to the Acid Rain provisions of the Clean Air Act (CAA).

Title V: The facility IS a Title V major source of air pollution in accordance with Chapter 213, F.A.C.

PSD: The facility IS a PSD-major stationary source in accordance with Rule 62-212.400, F.A.C.

NSPS: The facility OPERATES units subject to New Source Performance Standards (NSPS) in 40 CFR 60 including:

- 40 CFR 60, Subpart A - General Provisions.
- 40 CFR 60, Subpart GG - Standards of Performance for Stationary Gas Turbines.

CAIR: The facility IS subject to the Clean Air Interstate Rule (CAIR).

CAMR: Unit IS NOT subject to the Clean Air Mercury Rule (CAMR).

Siting: The facility is a steam electrical generating plant and IS NOT subject to the power plant siting provisions of Chapter 62-17, F.A.C.

RELEVANT DOCUMENTS

The following relevant documents are not a part of this permit, but helped form the basis for this permitting action: the permit application and additional information received to make it complete; the draft permit package including the Department's Technical Evaluation and Preliminary Determination; publication and comments; and the Department's Final Determination.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The Permitting Authority for this project is the Bureau of Air Regulation in the Division of Air Resource Management of the Department. The mailing address for the Bureau of Air Regulation is 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Central District Office. The mailing address and phone number of the Central District Office is: 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803; Telephone: 407/894-7555; Fax: 407/897-5963.
3. Appendices: The following Appendices are attached as part of this permit: Appendix GC (General Conditions); and Appendix C (Common State Regulatory Requirements).
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
6. Modifications: No emissions unit shall be constructed or modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
7. Title V Permit: This permit authorizes specific modifications and/or new construction on the affected emissions units as well as initial operation to determine compliance with conditions of this permit. A Title V operation permit is required for regular operation of the permitted emissions unit. The permittee shall apply for a Title V operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after completing the required work and commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the Bureau of Air Regulation with copies to each Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]

SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS

This section of the permit addresses the following emissions units.

AIR RESOURCE MANAGEMENT SYSTEM (ARMS) Emissions Units 003 and 004

Description: Each emissions unit consists of a General Electric Model LM6000 gas turbine, heat recovery steam generator (HRSG) with duct firing, chiller system, and SPRINT spray inter-cooling. Steam generated in the HRSGs is directed to a common steam turbine-electrical generator, which is rated at 26.5 megawatts (MW). Energy is sold to Progress Energy pursuant to a 20-year agreement that commenced on July 1, 1993. Steam has been furnished to an orange processing facility. In 2002 the facility installed three water distillation units. The distilled water is sold on the open market. Operations and maintenance services are provided by the Caithness Operating Co., L.L.C.

Fuel: Each unit fires pipeline natural gas as the primary fuel and distillate oil as a restricted alternate fuel.

Capacity: At a turbine inlet temperature of 51° F, the maximum heat input rate from gas firing using lower heating value (LHV) without SPRINT is 423 million British thermal units (MMBtu) per hour, which produces approximately 39.5 MW. At a turbine inlet temperature of 51° F, the maximum heat input rate from gas firing (LHV) with SPRINT is 435 MMBtu per hour, which produces approximately 50.2 MW.

Nitrogen Oxides (NO_x) Controls: A water injection system is used to reduce NO_x emissions. The water-to-fuel ratio is monitored continuously and adjusted by the automatic control system based on load conditions.

Stack Parameters: The stack is 11.0 feet in diameter and 100 feet tall. After the HRSGs and steam turbine-electrical generator, the exhaust exits at 232° F with a volumetric flow rate of 325,221 actual cubic feet per minute (acfm).

{Permitting Note: The units remain subject to the applicable requirements of previous Air Construction Permit No. PSD-FL-176 (Project No. AC35-196459) and current Title V Air Operation Permit No. 0694801-005-AV.}

PREVIOUS APPLICABLE REQUIREMENTS

1. **Other Permits:** The conditions of this permit supplement all previously issued air construction and operation permits for this emissions unit. Unless otherwise specified, these conditions are in addition to all other applicable permit conditions and regulatory requirements. The permittee shall continue to comply with the conditions of these permits, which include restrictions and standards regarding capacities, production, operation, fuels, emissions, monitoring, record keeping, reporting, etc. [Rule 62-4.070, F.A.C.]

EQUIPMENT AND PERFORMANCE RESTRICTIONS

2. **SPRINT Upgrade:** This permit authorizes the construction activities necessary to add the General Electric Company's spray inter-cooling (SPRINT) technology to Unit 1 and Unit 2. In general, the equipment consists of a system that will automatically meter approximately 9 to 12 gallons per minute (gpm) of de-mineralized water to a series of 24 spray nozzles. [Applicant request.]
3. **Permitted Capacity:** At a turbine inlet temperature of 51° F, the maximum heat input rate from firing natural gas (LHV) when utilizing the SPRINT system is 435 MMBtu per hour per combustion turbine. [Rule 62-210.200(PTE), F.A.C.]

{Permitting Note: This permit does not alter any previous requirements for other methods of operation or modify any specifications related to authorized fuels, fuel consumption, or allowable hours of operation.}

SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS

EMISSIONS STANDARDS

4. Carbon Monoxide (CO)

- a. Combustion Turbines (CTs): When firing natural gas and utilizing SPRINT, CO emissions from each unit shall not exceed 28 parts per million by volume dry (ppmvd). In addition, the maximum CO mass emission rate from both units combined shall not exceed 56.0 pounds per hour based on a turbine inlet temperature of 51° F.
{Permitting Note: The concentration-based standard (ppmvd) remains consistent with the BACT determination made in Permit No. PSD-FL-176.}
- b. Combustion Turbines and Duct Burners (CTs+DBs): When firing natural gas, operating the duct burner system, and utilizing SPRINT, the maximum CO mass emission rate from both units combined shall not exceed 92.0 pounds per hour based on a turbine inlet temperature of 51° F.

[AC35-196459; 0694801-005-AV; and Applicant request.]

5. Nitrogen Oxides (NO_x)

- a. Combustion Turbines (CTs): When firing natural gas and utilizing SPRINT, NO_x emissions from each unit shall not exceed 25 ppmvd corrected to 15% oxygen. In addition, the maximum NO_x mass emission rate from both units combined shall not exceed 85.5 pounds per hour based on a turbine inlet temperature of 51° F.
{Permitting Note: The concentration-based standard (ppmvd corrected to 15% oxygen) remains consistent with the initial BACT determination made in Permit No. PSD-FL-176.}
- b. Combustion Turbines and Duct Burners (CTs+DBs): When firing natural gas, operating the duct burner system, and utilizing SPRINT, the maximum NO_x mass emission rate from both units combined shall not exceed 103.5 pounds per hour based on a turbine inlet temperature of 51° F.

[AC35-196459; 0694801-005-AV; and Applicant request.]

6. Other Emissions Standards: Unless otherwise specified above, the emissions standards specified in current Title V Air Operation Permit No. 0694801-005-AV also apply when utilizing the SPRINT spray inter-cooling system with each corresponding operational configuration.

[Rule 62-4.070(3), F.A.C.]

EMISSIONS PERFORMANCE TESTING

7. Initial Compliance Tests: Each unit shall be tested to demonstrate initial compliance with the CO and NO_x emissions standards specified in this permit. CO and NO_x emissions tests shall be conducted concurrently. The initial tests shall be conducted within 60 days after completing construction of the SPRINT project and achieving maximum production capacity, but not later than 180 days after initial operation of the unit with SPRINT. [Rule 62-297.310(7)(a)1., F.A.C.]
8. Annual Compliance Tests: During each federal fiscal year (October 1st to September 30th), each unit shall be tested to demonstrate compliance with the CO and NO_x emissions standards specified in this permit. CO and NO_x emissions tests shall be conducted concurrently.
[Rule and 62-297.310(7)(a)4, F.A.C., and to avoid Rule 62-212.400, F.A.C.]
9. Test Notifications: At least 15 days prior to the date on which each required test is to begin, the permittee shall notify the Compliance Authority of the date, time, and place of each test. The notification shall also include the name and phone number of the contact person who will be responsible for coordinating and having the tests conducted. [Rule 62-297.310(7)(a)9, F.A.C.]

SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS

10. Test Methods: Required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content.
7E	Determination of Nitrogen Oxide Emissions from Stationary Sources.
10	Determination of Carbon Monoxide Emissions from Stationary Sources. <i>{Permitting Note: The method shall be based on a continuous sampling train.}</i>
19	Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxides Emission Rates. <i>{Permitting Note: The F-factor method may also be used to determine flow rates and gas analysis to calculate mass emission rates in lieu of Methods 1-4.}</i>

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used without prior written approval from the Department. [Rules 62-204.800 and 62-297.100, F.A.C.; 40 CFR 60, Appendix A]

NOTIFICATIONS, RECORDS AND REPORTS

11. Construction Notifications: Within 15 days of beginning construction, the permittee shall notify the Compliance Authority that construction has commenced. Within 15 days of completing construction, the permittee shall notify the Compliance Authority that construction has concluded. Each notification shall include an updated proposed schedule of activities through the initial shakedown period and initial testing. [Rule 62-4.070(3), F.A.C.]
12. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in the facility's current Title V Air Operation Permit. For each test run, the report shall also indicate the operating load (MW), maximum heat input rate (MMBtu per hour), ambient temperature (° F), turbine inlet temperature (° F), and water-to-fuel ratio. [Rule 62-297.310(8), F.A.C.]
13. Operational Data: The permittee shall monitor and record the hours of operation utilizing SPRINT. [Rule 62-4.070(3), F.A.C.]
14. PSD Applicability Report: Before March 1st of each year, the permittee shall submit a report to the Bureau of Air Regulation and the Compliance Authority summarizing actual annual emissions for the previous calendar year. The reports shall be submitted for five separate years that are representative of normal post-change operations after completing construction of the SPRINT project. The reports shall begin during the first full year that the SPRINT technology is in use and continue for five years. Reports are subject to the following conditions.
- Actual emissions for a given year in the future shall be determined by the tested emission rates for that year and the actual hours of operation during the calendar year. Pursuant to Department Rule 62-210.370, F.A.C., the owner or operator shall employ, on a pollutant-specific basis, the most accurate of the approaches described in the Rule to compute the emissions of a pollutant from an emissions unit. If the emissions unit is equipped with a continuous emissions monitoring system (CEMS) meeting the applicable certification and quality assurance requirements of 40 CFR Part 60, the owner or operator shall use such CEMS to compute the emissions of the pollutant.

SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS

- b. The total "baseline actual emissions" for Unit 1 and Unit 2 (2-year average) are 180 tons per year of carbon monoxide and 272 tons per year of nitrogen oxides.
- c. In accordance with Rule 62-210.200(247), F.A.C., the permittee may "exclude that portion of the unit's emissions following the project that an existing unit could have accommodated during the consecutive 24-month period used to establish the baseline actual emissions and that are also unrelated to the particular project including any increased utilization due to product demand growth".
- d. The permittee shall quantify any excluded emissions and provide a rationale.
- e. The annual report shall compare actual emissions calculated for a given year with the baseline actual emissions identified above. If the comparison shows an increase in actual emissions greater than the PSD significant emission rates defined in Rule 62-210.200, F.A.C., then Unit 1 and Unit 2 shall be subject to PSD preconstruction review at that time. The review shall include a determination of the Best Available Control Technology (BACT) for each PSD-significant pollutant.

[Rules 62-204.800, 62-210.200, 62-212.300(1)(e)1., 62-212.400, and 62-210.370, F.A.C.; and 40 CFR 52.21(b)(41)(ii)(c)]

SECTION 4. APPENDIX C
COMMON STATE REGULATORY REQUIREMENTS

{Permitting Note: Unless otherwise specified by permit, the following conditions apply to all emissions units and activities at the facility.}

EMISSIONS AND CONTROLS

1. Plant Operation - Problems: If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by fire, wind or other cause, the permittee shall notify each Compliance Authority as soon as possible, but at least within one working day, excluding weekends and holidays. The notification shall include: pertinent information as to the cause of the problem; steps being taken to correct the problem and prevent future recurrence; and, where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with the conditions of this permit or the regulations. [Rule 62-4.130, F.A.C.]
2. Circumvention: The permittee shall not circumvent the air pollution control equipment or allow the emission of air pollutants without this equipment operating properly. [Rule 62-210.650, F.A.C.]
3. Excess Emissions Allowed: Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted 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 Department for longer duration. [Rule 62-210.700(1), F.A.C.]
4. Excess Emissions Prohibited: Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]
5. Excess Emissions - Notification: In case of excess emissions resulting from malfunctions, the permittee shall notify the Department or the appropriate Local Program in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]
6. VOC or OS Emissions: No person shall store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. [Rule 62-296.320(1), F.A.C.]
7. Objectionable Odor Prohibited: No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rules 62-296.320(2) and 62-210.200(217), F.A.C.]
8. General Visible Emissions: No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20 percent opacity. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b)1, F.A.C.]
9. Unconfined Particulate Emissions: 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, as necessary. [Rule 62-296.320(4)(c), F.A.C.]

TESTING REQUIREMENTS

10. Required Number of Test Runs: For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate was measured; provided, however, that three complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five-day period. In the event that a sample is lost or one of the three runs must be discontinued because of circumstances beyond the control of the owner or operator, and a valid third run cannot be obtained within the five-day period allowed for the test, the Secretary or his or her designee may accept the results of two complete runs as proof of compliance, provided that the arithmetic mean of the two complete runs is at least 20% below the allowable emission limiting standard. [Rule 62-297.310(1), F.A.C.]

SECTION 4. APPENDIX C
COMMON STATE REGULATORY REQUIREMENTS

11. Operating Rate During Testing: Testing of emissions shall be conducted with the emissions unit operating at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the maximum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test rate until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. [Rule 62-297.310(2), F.A.C.]
12. Calculation of Emission Rate: For each emissions performance test, the indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the three separate test runs unless otherwise specified in a particular test method or applicable rule. [Rule 62-297.310(3), F.A.C.]
13. Test Procedures: Tests shall be conducted in accordance with all applicable requirements of Chapter 62-297, F.A.C.
- a. *Required Sampling Time*. Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes. The minimum observation period for a visible emissions compliance test shall be thirty (30) minutes. The observation period shall include the period during which the highest opacity can reasonably be expected to occur.
 - b. *Minimum Sample Volume*. Unless otherwise specified in the applicable rule or test method, the minimum sample volume per run shall be 25 dry standard cubic feet.
 - c. *Calibration of Sampling Equipment*. Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1, F.A.C.
- [Rule 62-297.310(4), F.A.C.]
14. Determination of Process Variables
- a. *Required Equipment*. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.
 - b. *Accuracy of Equipment*. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.
- [Rule 62-297.310(5), F.A.C.]
15. Sampling Facilities: The permittee shall install permanent stack sampling ports and provide sampling facilities that meet the requirements of Rule 62-297.310(6), F.A.C.
16. Test Notification: The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. [Rule 62-297.310(7)(a)9, F.A.C.]
17. Special Compliance Tests: When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department. [Rule 62-297.310(7)(b), F.A.C.]
18. Test Reports: The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test. The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed. The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to

SECTION 4. APPENDIX C
COMMON STATE REGULATORY REQUIREMENTS

determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:

1. The type, location, and designation of the emissions unit tested.
2. The facility at which the emissions unit is located.
3. The owner or operator of the emissions unit.
4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.
8. The date, starting time and duration of each sampling run.
9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.
10. The number of points sampled and configuration and location of the sampling plane.
11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.
12. The type, manufacturer and configuration of the sampling equipment used.
13. Data related to the required calibration of the test equipment.
14. Data on the identification, processing and weights of all filters used.
15. Data on the types and amounts of any chemical solutions used.
16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.
17. The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.
18. All measured and calculated data required to be determined by each applicable test procedure for each run.
19. The detailed calculations for one run that relate the collected data to the calculated emission rate.
20. The applicable emission standard and the resulting maximum allowable emission rate for the emissions unit plus the test result in the same form and unit of measure.
21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

[Rule 62-297.310(8), F.A.C.]

RECORDS AND REPORTS

19. Records Retention: All measurements, records, and other data required by this permit shall be documented in a permanent, legible format and retained for at least five (5) years following the date on which such measurements, records, or data are recorded. Records shall be made available to the Department upon request. [Rules 62-4.160(14) and 62-213.440(1)(b)2, F.A.C.]
20. Annual Operating Report: The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports shall be submitted to the Compliance Authority by March 1st of each year. [Rule 62-210.370(2), F.A.C.]

SECTION 4. APPENDIX GC

General Permit Conditions

The permittee shall comply with the following general conditions from Rule 62-4.160, F.A.C.

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:
 - a. Have access to and copy and records that must be kept under the conditions of the permit;
 - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit, and,
 - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - a. A description of and cause of non-compliance; and
 - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source

SECTION 4. APPENDIX GC

General Permit Conditions

arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
 - a. Determination of Best Available Control Technology (not applicable to project);
 - b. Determination of Prevention of Significant Deterioration (not applicable to project); and
 - c. Compliance with New Source Performance Standards (previously applicable to gas turbines).
14. The permittee shall comply with the following:
 - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
 - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application or this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
 - c. Records of monitoring information shall include:
 - 1) The date, exact place, and time of sampling or measurements;
 - 2) The person responsible for performing the sampling or measurements;
 - 3) The dates analyses were performed;
 - 4) The person responsible for performing the analyses;
 - 5) The analytical techniques or methods used; and
 - 6) The results of such analyses.
15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.